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Public Administration (PADM) 1885
Reading (READ) 1886
Real Estate (REAL) 1888
Saxophone (SAXO) 1889
Scientific Foundations (SFOM) 1889
Secondary Education (CISE) 1889
Security Studies (SCST) 1889
Sociology (SOCI) 1891
Spanish (SPAN) 1893
Special Education (SPED) 1894
Sport Management (SPMT) 1897
Statistics (STAT) 1899
Supply Chain Management (SCMG) 1900
Sustainable Agriculture and Food Environment (SAFE) 1902
Teach English as Second Lang (TESL) 1902
Technical Communication (TCOM) 1904
Theatre (THEA) 1906
Trombone (TRMB) 1906
Trumpet (TRMT) 1906
Tuba (TUBA) 1906
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PRESIDENT'S WELCOME

Welcome to the Bearkat family at Sam Houston State University! I am thrilled you have chosen SHSU to further your education. Our three campuses and SHSU Online will offer you an exceptional college experience. Our graduates are well prepared for today's demanding careers and rapidly changing workforce. We offer more than 90 undergraduate degrees, 55+ master's degrees, 10 doctoral degrees and certificate programs across eight colleges. We will support every step of your journey at SHSU, and you will leave here with a network of friends, faculty and staff invested in your success. Whether you graduate as a first responder, artist, teacher, psychologist, banker, scientist, agriculture professional or Bearkat doctor, your career will add another chapter to our legacy of measuring life by serving others. The quality of our students, faculty, staff and the support of our campus community drive Sam Houston forward, and I am excited you are a part of our story.

Eat 'em up, Kats!
Dr. Alisa White
President
Sam Houston State University

LA BIENVENIDA DE LA PRESIDENTA

¡Bienvenidos a la familia Bearkat de Sam Houston State University! Estoy emocionada que haya elegido SHSU para avanzar su educación. Aquí, nuestros tres campus universitarios y también SHSU Online le ofrecen una experiencia universitaria excepcional. Nuestros graduados obtienen la más alta preparación académica para las carreras exigentes modernas y para la fuerza laboral en constante cambio. Ofrecemos más de 90 títulos de licenciatura, 55 programas de maestría, 10 programas de doctorado, y programas de certificación en ocho escuelas diferentes. Nuestra universidad se compromete a proveer las oportunidades y el apoyo necesario para lograr el éxito en sus estudios. Se encontrará con una comunidad de amigos, profesores, y personal que están dedicados a su éxito. Ya sea que se gradúe como miembro del personal de emergencias, artista, maestro, psicólogo, banquero, científico, agricultor, o médico Bearkat, su crecimiento profesional y su carrera añadirá otro capítulo a nuestro legado de la medida de una vida es su servicio. La calidad de nuestros estudiantes, profesores, y personal, junto con el apoyo de nuestra comunidad universitaria, lleva hacia adelante a Sam Houston. Estoy entusiasmada de que sea parte de nuestra historia.

Eat 'em up, Kats!
Dra. Alisa White
Presidenta
Sam Houston State University

DEGREES OFFERED

No results found, please try again.

- Academic Advising, Graduate Certificate
- Accounting, BBA
- Accounting, MS
- Accounting, Minor
- Adult Education, Graduate Certificate
- Advanced Chemistry, Minor
- Agricultural Business with Ranch Management Concentration, BS
- Agricultural Business with Teaching Certification, BS
- Agricultural Business, BS
- Agricultural Business, Minor
- Agricultural Communications, BS
- Agricultural Engineering Technology with Teaching Certification. BS
- Agricultural Engineering Technology, BS
- Agricultural Engineering Technology, Minor
- Agriculture, MS
- American History, Graduate Certificate
- American Sign Language, Minor
- American Studies, Minor
- Animal Science with Teaching Certification, BS
- Animal Science, BS
- Animal Science, Minor
- Animal Science, Minor in Conservation Biology, BS
- Animal Science, Minor in Wildlife Management, BS
- Animal Science, Pre-Veterinary Medicine, BS
- Animal Science: Animal Care and Welfare Concentration, BS
- Animation with Teaching Certification, BFA
- Animation, BFA
- Applied Arts and Sciences, BAAS
- Applied Behavior Analysis, Minor
- Applied Economics, MS
- Applied Ethics and Critical Thinking, Minor
- Architectural Design Technology, Minor
- Art History, Minor
- Art and Social Practice, MFA
- Art, BA
- Artist Diploma Certificate: Post-Master's
- Arts and Popular Culture, Minor
- Astronomy, Minor
- Athletic Training, MSAT
- Band Studies, MA
- Banking and Financial Institutions, BBA
- Banking and Financial Institutions, EMBA
- Banking and Financial Institutions: Concentration in Commercial Real Estate (as of Spring 2026), BBA
- Banking, Minor
- Bilingual (Spanish) Educational Diagnostician, Graduate Certificate
- Bilingual Health Care Studies; Minor in Foreign Language, BA
- Biology, BA
- Biology, BS

- Biology, MA
- Biology, MS
- Biology, Minor
- Biomedical Science, BS
- Biosecurity and Pandemics, Undergraduate Certificate
- Biotechnology Concentration, BAAS
- Business Administration with PGA Golf Management Concentration, BBA
- Business Administration, BBA
- Business Administration, MBA
- Business Administration: Accelerated Track, MBA
- Business Administration: Real Estate Concentration, BBA
- Business Data Analytics, Minor
- Business Education, Minor
- Business Legal Analysis, Undergraduate Certificate
- Business Negotiation and Communication, Undergraduate Certificate
- Business Security and Resilience, MS
- Chemistry for Other Technical Careers, BS
- Chemistry for Professional Chemists, BS
- Chemistry, MS
- Chemistry, Minor
- Chemistry: Biochemistry and Medicine Concentration, BS
- Chemistry: Forensic Science Concentration, BS
- Clinical Psychology, MA
- Clinical Psychology, PhD
- Clinical Psychology: Pre-Doctoral, MA
- College of Humanities and Social Sciences
- Communication Studies, BA
- Communication Studies, BS
- Communication Studies, Graduate Certificate
- Communication Studies, MA
- Communication Studies, Minor
- Communication for Health and Social Care Professionals, Undergraduate Certificate
- Communication for Legal and Criminal Justice Professionals, Undergraduate Certificate
- Communication for Sport Professionals, Undergraduate Certificate
- Community Leadership, Minor
- Comparative and Global Education, MEd
- Computing Science (Computer Science), BS
- Computing Science (IA): 4+1 MS Computing and Data Science, BS
- Computing Science (IS): 4+1 MS Computing and Data Science, BS
- Computing Science (Information Assurance), BS
- Computing Science (Information Systems), BS
- Computing Science: 4+1 MS Computing and Data Science, BS
- Computing Science: Computer Sciences (CS), Minor
- Computing Science: Information Assurance (IA), Minor
- Computing Science: Information Systems (IS), Minor
- Computing and Data Science, MS
- Conservation Biology, Minor
- Construction Management, BS
- Construction Management, Minor
- Counseling, MA
- Counselor Education, PhD
- Creative Writing, Editing, and Publishing, MFA

- Creative Writing, Minor
- Crime Analysis and Mapping, Minor
- Crime Analysis and Mapping, Undergraduate Certificate
- Criminal Justice Concentration, BAAS
- Criminal Justice Leadership and Management, Graduate Certificate
- Criminal Justice Leadership and Management, MS
- Criminal Justice and Criminology, MA
- Criminal Justice and Social Identity, Minor
- Criminal Justice and Social Identity, Undergraduate Certificate
- Criminal Justice, BA
- Criminal Justice, BS
- Criminal Justice, MS
- Criminal Justice, Minor
- Criminal Justice, PhD
- Criminal Justice, Undergraduate Certificate
- Critical Infrastructure Protection, Graduate Certificate
- Cultural Competency, Minor
- Curriculum and Instruction, EdD
- Curriculum and Instruction, MEd
- Cyber Security, Graduate Certificate
- Cybersecurity, BS
- Dance, BFA
- Dance, MFA
- Dance, Minor
- Data Assurance, Graduate Certificate
- Data Science, BS
- Data Science, Graduate Certificate
- Dietetics, MS
- Digital Forensics, MS
- Digital Investigation, Graduate Certificate
- Digital Literacies, Graduate Certificate
- Digital Media Production, MFA
- Digital and Cyber Forensic Science, PhD
- Double Major in Education and Composite Science, BS
- Double Major in Education and English, BA
- Double Major in Education and History, BS
- Double Major in Education and Interdisciplinary Agriculture, BS
- Double Major in Education and Kinesiology, BS
- Double Major in Education and Mass Communication: Journalism, BA
- Double Major in Education and Mathematics, BS
- Double Major in Education and Spanish, BA
- Dyslexia, Graduate Certificate
- Early Childhood Education, Minor
- Economics, BBA
- Economics, Minor
- Education, 4-8 Core, BS
- Education, 4-8 Core: 4+1 Master of Education in Teaching & Learning, BS
- Education, 4-8 ELAR: 4+1 Master of Education in Teaching & Learning, BS
- Education, 4-8 Mathematics: 4+1 MED in Teaching & Learning, BS
- Education, 4-8 Science, BS
- Education, 4-8 Science: 4+1 Master of Education in Teaching & Learning, BS
- Education, 4-8 Social Studies, BS

- Education, 4-8 Social Studies: 4+1 MED in Teaching & Learning, BS
- Education, EC-6 Bilingual Core, BS
- Education, EC-6 Bilingual Core: 4+1 MED in Teaching & Learning, BS
- Education, EC-6 Core, BS
- Education, EC-6 Core: 4+1 Master of Education in Teaching & Learning, BS
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- Education, PK-3: 4+1 Master of Education in Teaching & Learning, BS
- Education: 4-8 ELAR, BS
- Education: 4-8 Mathematics, BS
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- Education: PK-3 Special Education, BS
- Education: PK-3, BS
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- Educational Leadership, EdD
- Educational Studies, BA
- Educational Technology, Graduate Certifiate
- Effective Online Instruction, Graduate Certificate
- Electronics and Computer Engineering Technology, BS
- Electronics, Minor
- Emergency Management, Graduate Certificate
- Emerging Media and Innovation, Minor
- Emerging and Social Media, MA
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- Engineering Technology (Manufacturing Engineering Technology), BS
- Engineering Technology - Concentration in Electronics, BS
- Engineering Technology and Management (As of Spring 2026), MS
- Engineering Technology, BS
- Engineering Technology, Concentration in Environmental, Health, and Safety Management, BS
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- Engineering Technology: Biomedical Engineering Technology Concentration, BS
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- English, BA
- English, Graduate Certificate
- English, MA
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- Environmental Science (Sustainability), BS
- Environmental Science (Water Resources), BS
- Environmental Science, Minor
- Environmental Studies, Minor
- Environmental, Health, and Safety Management, Minor
- Equine Science, Minor
- Ethics, Minor
- Experimental Psychology, MA
- Fashion Merchandising, BS
- Fashion Merchandising, Minor
- Film & TV Production, BFA

- Film Studies, Minor
- Finance, BBA
- Finance, Minor
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- Finance: Concentration in Investments, BBA
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- General Business Administration, Minor
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- Geo-Spatial Science, Minor
- Geographic Information Systems, Graduate Certificate
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- Geography (Environment, Culture, and Development), BS
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- Geography, Minor
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- Geology, BS
- Geology, Minor
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- Graphic Design, Minor
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- Health Sciences, BS
- Health, Minor
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- Higher Education Leadership, EdD
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- History, MA
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- Homeland Security Studies, BA
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- Homeland Security Studies, MS
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- Human Performance and Wellness Management, BS
- Human Resource Management, BBA
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- Information Assurance and Cybersecurity, MS
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- Integrated Studies: Environmental and Occupational Health Concentration, BS
- Integrated Studies: Land and Urban Property Development Concentration, BS
- Integrated Studies: Law, Ethics, and Society Concentration, BS
- Integrated Studies: Legal Writing and Communication Concentration, BS
- Integrated Studies: Social and Data Analytics Concentration, BS
- Integrated Studies: Sustainable Community Management Concentration, BS
- Integrated Studies: Victimology and Mental/Public Health Concentration, BS
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- Kinesiology (Clinical Exercise Science), BS
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- Learning Technologies, BA
- Legal Studies, Minor
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- Literacy Instruction*, MEd
- Management Information Systems, BBA
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- Management and Leadership in Criminal Justice, Undergraduate Certificate
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- Management, Minor
- Manufacturing Engineering Technology, Minor
- Marketing, BBA
- Marketing, Minor
- Marriage, Couple, and Family Counseling, Graduate Certificate
- Mass Communication, Minor
- Mass Communication: Broadcast Production, BA
- Mass Communication: Multiplatform Journalism, BA
- Mass Communication: Public Relations & Advertising, BA
- Mass Communications: Film, BA
- Mathematics, BA
- Mathematics, BS
- Mathematics, MA
- Mathematics, MS
- Mathematics, Minor
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- Mechanical Engineering Technology, BS
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- Musical Theatre with Dance Emphasis, BFA
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- Occupational Health and Safety Technology, Undergraduate Certificate
- Osteopathic Medicine, DO
- Osteopathic Medicine, DO and Public Health, MPH
- Performer's Certificate: Post Baccalaureate
- Philosophy, BA
- Philosophy, Minor
- Photography with Teaching Certification, BFA
- Photography, BFA
- Photography, Minor
- Physics, BS
- Physics, Civil Engineering 2+2, BS
- Physics, Electrical Engineering 2+2, BS
- Physics, Mechanical Engineering 2+2, BS
- Physics, Minor
- Physics/Engineering Dual Degree, BS
- Plant and Soil Science, Minor
- Plant and Soil Sciences with Teaching Certification, BS
- Plant and Soil Sciences, BS
- Play Therapy, Graduate Certificate
- Political Science, BA
- Political Science, BS
- Political Science, Graduate Certificate
- Political Science, MA
- Political Science, Minor
- Principal Certification
- Project Management, MS
- Project Methods and Tools, Graduate Certificate
- Psychology, BS
- Psychology, Minor
- Public Administration and Public Policy, Minor
- Public Administration, MPA
- Public Health, BS
- Public Health, MPH
- Public Health: 4+1 MPH, BS
- Quality Management Tools, Graduate Certificate

- Reading Specialist Certification (Post Graduate)
- Real Estate Analysis, Graduate Certificate
- Real Estate Analysis, Undergraduate Certificate
- Real Estate, Minor
- School Counseling, MEd
- School Leadership, MEd
- School Librarian Certification
- School Psychology, SSP
- Science, Minor
- Second Language Instruction, Graduate Certificate
- Security and Resilience in the Chemical and Energy Sectors, Undergraduate Certificate
- Security and Resilience in the Healthcare Sector, Undergraduate Certificate
- Security and Resilience in the Transportation Sector, Undergraduate Certificate
- Sociology, BA
- Sociology, BS
- Sociology, Graduate Certificate
- Sociology, MA
- Sociology, Minor
- Software Engineering, BS
- Spanish Interpretation and Translation for Health Professions, Minor
- Spanish, BA
- Spanish, MA
- Spanish, Minor
- Special Education Transition Services, Graduate Certificate
- Special Education, MA
- Special Education, MEd
- Special Education, Minor
- Sport Coaching, Minor
- Sport Coaching, Undergraduate Certificate
- Sport Management, MS
- Sports Media, Minor
- Statistical Methods, Minor
- Statistical Theory, Minor
- Statistics and Data Science, MS
- Statistics and Data Science, Minor
- Studio Art 2D Track, BFA
- Studio Art 2D with Teaching Certification, BFA
- Studio Art 3D Track, BFA
- Studio Art 3D with Teaching Certification, BFA
- Superintendent Certification
- Supply Chain Management, BBA
- Supply Chain Management, Minor
- Sustainable Agriculture and Food Environment, MAg
- Sustainable Agriculture, Graduate Certificate
- TESOL (Teaching English to Speakers of Other Languages), MEd
- Teacher Certification
- Teaching and Learning, MEd
- Technical Communication, MA
- Technical Communication, Undergraduate Certificate
- Technical and Professional Writing, Minor
- Theatre, Minor
- Theatre-Acting and Directing Emphasis, BFA

- Theatre-Design and Technology Emphasis, BFA
- Theatre-Theatre Studies Emphasis, BFA
- Three-Dimensional Studio Art, Minor
- Trades and Industry Certification, Minor
- Trauma and Loss, Graduate Certificate
- Two-Dimensional Studio Art, Minor
- Victim Services Management, MS
- Victim Studies, BA
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- //

CAREER AND TECHNICAL

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For questions, please contact Sam Houston State Polytechnic College (https://sam.edu/)

Address: 1905 University Ave., Huntsville, TX 77341

Phone: 936.294.1777

The purpose of the catalog is to provide general information about the career and technical programs of Sam Houston State University to prospective students, current students, faculty, and staff of the University. Included is information concerning the academic calendar, admission and registration procedures, tuition and fees, degree requirements, services available to students, and the faculty and administrative officers of the University.

Subject to Change Notice

The policies, regulations, procedures, and fees in this catalog are subject to change without notice, if necessary, to keep University policies in compliance with State and Federal laws and/or with rules and regulations of the Board of Regents of The Texas State University System.

The University reserves the right to change curricula, rules, fees, and other requirements, of whatever kind, affecting students. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, or faculty member and Sam Houston State University or its Board of Regents.

Course Prefixes and Abbreviations (p. 1145) provides a list of course abbreviations (e.g., ITAI represents Artificial Intelligence courses) used throughout this catalog and in many SHSU operations and publications (e.g., transcripts, registration, etc.).

Texas Common Course Numbers (p.) are of great value for transfer students and SHSU students who take an occasional class at a Texas community college.

Report a Problem (catalogs@shsu.edu) - If you notice a problem with the catalog, such as a broken link or a typographical error, please report the problem via email to the catalog editor in the Office of Academic Planning and Assessment. Be specific and include the exact address of the page if possible.

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Academic Good Standing for Undergraduate Students

Students in academic good standing have a Sam Houston State University (SHSU) grade point average (GPA) of at least 2.0.

Academic Probation for Undergraduate Students

An undergraduate student who falls below the minimum 2.0 SHSU overall GPA at the close of any term will be placed on probation. Students on probation are required to meet with an academic advisor in order to remain registered in the subsequent term.

If an enrolled student on probation achieves a current term GPA of 2.0 or higher but fails to achieve a minimum 2.0 SHSU GPA at the close of the next semester or summer semester following the start of the probation, the student will be placed on continued probation. If an enrolled student on probation or continued probation fails to achieve a current term GPA of 2.0 or higher at the close of the next semester or summer semester following the start of the probation or continued probation, the student will be suspended. See Academic Policy Statement 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf) for more details.

Academic Suspension for Undergraduate Students

Students who fall below a 2.0 SHSU overall GPA in the term following the probation standing will be suspended academically. Academically suspended students must be approved for readmission by the college's academic dean, to which the student will enroll at the time of their readmission. The petition for readmission must be made in writing, and the student must be re-advised to register or to remain registered in the subsequent term. See Academic Policy Statement 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf)for more details.

International students placed on academic suspension should report to the International Student Advisor in the G (https://www.shsu.edu/dept/international-programs/)lobal Engagement Center (https://www.shsu.edu/dept/global-engagement/).

Academic Grievance Procedures for Students

Academic grievances include disputes over academic standards, course grades, unauthorized class absences or tardiness, suspension from the university for academic deficiency, and/or alleged unprofessional conduct by a course instructor. See Academic Policy Statement 900823, (https://www.shsu.edu/dept/academic-affairs/documents/aps/students/900823%20Academic%20Grievance%20Procedures%20for%20Students.pdf)for additional information.

Career & Technical Degree Requirements (General)

- Undergraduate Degree Requirements (p.)
- University Academic Policy Manual and Student Guidelines (p. 37)

Undergraduate Degree Requirements (General)

Bachelor's degrees

All bachelor's degrees contain the following MINIMUM requirements:

Total Hours. A minimum of 120 hours total (developmental courses not included) is required of each bachelor's degree. Some bachelor's degree programs may require additional hours above the 120 minimum.

Advanced Hours. (3000-4000 level courses) 42 semester hours of advanced work must be completed for a bachelor's degree. Courses taken from a community college do not transfer for advanced credit.

Minimum Residence - All college level courses completed at SHSU are considered "in residence" including when taken at SHSU - The Woodlands Center, as an online course, or at any pre-approved off-campus sites (example: Student Teaching courses completed at a pre-approved school district). Note: Courses previously completed through correspondence are NOT considered "in residence" hours. Developmental courses are NOT considered college level hours for the completion of the degree.

Required hours completed "in residence" for bachelor's degrees:

- At least 25% of the semester credit hours (SCH) required by the degree must be taken SHSU (example: 30 semester credit hours for a 120 credit hour program). Of the 25% residency hours required, 24 SCH hours must be advanced (3000 or 4000 level)
- 12 semester credit hours (SCH) of advanced (3000 or 4000 level) coursework within each major field of study
- 6 semester credit hours (SCH) of advanced (3000 or 4000 level) coursework within each minor field of study (if applicable)

Academic Associate degrees

Applied Associate degrees

Grade Point Average (GPA) - Degree Requirements

A minimum 2.00 GPA is required in the following:

- SHSU GPA
- Overall GPA (SHSU coursework and transfer coursework. This is considered the cumulative grade point average.)
- SHSU Major GPA (some programs may require a higher GPA)
- Overall Major GPA (SHSU coursework and transfer coursework)
- SHSU Minor GPA (some minors may require a higher GPA)
- Overall Minor GPA (SHSU coursework and transfer coursework)

Academic Credit and Institutional GPA

- Academic credit for additional major or minor coursework shall be applicable to SHSU GPA in order to achieve minimum required grade point averages for graduation purposes. Academic credit for additional major and minor coursework beyond course requirements as noted on a student's degree plan may be used for SHSU GPA purposes and does not increase the total required hours for the degree program.

Degree Works/Degree Plan

The specific degree course requirements will be listed in the student's degree plan. A degree plan outlines academic requirements for successful completion of a specific degree. Students are encouraged to use the Student Advising & Mentoring (SAM Center) (https://www.shsu.edu/centers/sam-center/) for advice on degree plans. Students may view their degree plan via My Sam (https://mysam.shsu.edu) using DegreeWorks located under the Student Tab.

The Notes section in Degree Works contains important information from academic advisors, the Registrar's Office, and academic departmental staff, including academic deans. Students should review the Notes section in Degree Works regularly.

The university provides advisors through the Student Advising & Mentoring Center (Sam Center) (https://www.shsu.edu/centers/sam-center/)to assist students with registration and ensure appropriate progress toward completing degree requirements. However, the student is responsible for ensuring all degree requirements are fulfilled.

Students are placed under a degree and major based on the selection at the time of application to SHSU. Through an advisement session at the Student Advising & Mentoring (Sam Center) (https://www.shsu.edu/centers/sam-center/), a student has the option to change their degree, major, minor, or add an approved concentration. In addition, a later catalog may be selected, provided the requirements are met no later than six years from the effective date of the selected catalog. Students are responsible for knowledge of the detailed requirements of the degree plan, including any special requirements of the major and/or minor department. Some academic departments may require approval for a change of major.

Visit the Student Advising & Mentoring ((https://www.shsu.edu/centers/sam-center/)Sam Center) (https://www.shsu.edu/centers/sam-center/)website for contact information to make an appointment with an academic advisor.

University Academic Policy Manual and Student Guidelines

SHSU's Academic Policy Manual (https://www.shsu.edu/dept/academic-affairs/policies.html) and Student Complaints and Grievance Procedures (https://www.shsu.edu/dept/academic-affairs/grievances.html) provide specific information about the university's educational procedures and student conduct. Copies of these publications may be viewed at the Reference Desk in the Newton Gresham Library (https://library.shsu.edu/)or online.

Graduation

Scholastic Requirements

- Grades and Grade Points (p. 39)
- Determining Grade Point Average (GPA) (p. 40)
- Class Attendance (p. 41)
- Student Absences on Religious Holy Days (p. 41)
- Final Examinations (p. 41)

Grades and Grade Points

Sam Houston State University's grade system consists of five grades:

Grade	Description	Grade Points Per Semester Hours
A	Excellent	4
B	Above average	3
C	Average	2
D	Passing (not necessarily satisfying degree requirements)	1
F	Failure	0

Note: All of the above grades will be used in grade point average (GPA) calculations.

The following grades are assigned but are **not** used in the grade point average calculations:

X (Incomplete)

The X grade indicates the student has not been able to complete the course because of emergency circumstances beyond the student's control. See the Registrar's website (https://www.shsu.edu/dept/registrar/faculty-and-staff/Registrar%20X%20to%20F%20Process.pdf) for explanation of the X grade process.

The X grade is a temporary grade placeholder used under the following circumstance and with the following stipulations:

- Permission to award the grade of X is granted by the academic chair of the course discipline and with the recommendation of the instructor when emergency circumstances outside of the student's control prevented the student from being able to complete the assignments and exams for the class.
- It is expected the student will complete course assignments and any remaining exams without further instruction or tutoring from the course instructor.
- A grade change must be submitted to the Registrar's Office by the grade entry deadline of the next long term, or the grade of X will automatically change to a grade of F. Only the instructor of the course may initiate the grade change. (Grade Change Forms are submitted online.)
- A grade of X will not remain on the student record indefinitely or beyond the next long term.
- Academic standing will be re-calculated with the submitted grade change or with assigned F grade. This may result in Academic Probation or Suspension and the loss of future term course registration.

MG (Missing Grade)

The MG grade indicates the no final grade was reported by the instructor at the end of a term. Students should pursue the posting of the grade with their instructor. The MG grade is a temporary placeholder with the following stipulations:

- A grade change must be submitted to the Registrar's Office by the grade entry deadline of the upcoming fall or spring term (whichever applies). Only the instructor of the course may initiate the grade change. (Grade Change Forms are submitted online.)
- A grade of MG will not remain on the student record indefinitely or beyond the next long term.
- Academic standing will be re-calculated with the submitted grade change and may result in Academic Probation or Suspension and the loss of future term course registration.

IP (In Progress)

Assigned to thesis and other selected courses designed to require additional time to complete course requirements. Refer to the Registrar's website (https://www.shsu.edu/dept/registrar/faculty-and-staff/Registrar%20X%20to%20F%20Process.pdf) for explanation of the IP grade process.

CR (Credit)

Designates that academic credit was earned for the course. Hours earned with the grade of CR are counted in determining classification but are not used to calculate GPA.

NC (Non-Credit)

Designates that academic credit was not earned for the course and is not used to calculate GPA.

Q (Q-drop)

The grade of Q is assigned to courses dropped from the 13th class day for a fall, spring, or summer full term, through the Q-drop deadline as indicated on the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html), but before any final exams being taken or course completion. Courses with the grade of Q will not be included in the calculation of term or overall GPAs. Parts of terms within a term (such as 7 1/2 week or 5 week courses) use a different class census date unique to that part of term to determine when a Q grade will be assigned.

Undergraduate students are allowed no more than 6 Q-drops during their combined career at all Texas public colleges and universities. Any Q-drops accumulated prior to Fall 2007 (https://capitol.texas.gov/tlodocs/80R/billtext/html/SB01231F.HTM) will not be included in the calculation. Students are encouraged to visit their academic advisor and financial aid counselor before dropping a course.

Courses with the grade of Q are considered hours attempted when calculating excessive hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html)as mandated by the state and when calculating excessive hours for the purpose of tuition rebate (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html) (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html)at the point of graduation.

W (Resigned)

Students who resign after the 12th class day of a fall, spring, and summer full terms receive a grade of W (Resigned) for each course for which they were enrolled. If a student has received a grade in any course in a part of term, within the full term, they are ineligible to resign. An example would be a student who completes a course in the Summer I session would not be eligible to resign from the Summer II session. Although a student may be ineligible to resign, they may have the option to drop the course within the designated deadline.

Courses with the grade of W are considered hours attempted when calculating excessive hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) as mandated by the state and when calculating excessive hours for the purpose of T (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html)uition Rebate (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html) at the point of graduation.

*** (Developmental Course Designation)**

Any grade with an asterisk (*) symbol indicates a developmental course.

Note: Class days are university class days (Monday through Friday), not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus daytime courses as indicated in the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).

Determining Grade Point Average (GPA)

The grade point average (GPA) is calculated by dividing the **quality points earned** by the **total GPA hours attempted toward the degree**. The total GPA hours attempted toward the degree will not include developmental courses and courses assigned a CR (credit) or NC (non-credit) grade. The GPA is carried out two decimals (2.00) and is not rounded. Courses receiving the grades of IP, X or MG are not used in the hours calculating the GPA until a grade change form has been processed replacing grades of IP, X, or MG. The change of X or MG grade to A, B, C, D, or F will affect the term academic standing which will be reviewed with the grade change process. Developmental courses are currently assigned the grades of CR*/NC* and do not apply to the calculated grade point average or as credits toward degree completion. Historic developmental courses were assigned grades of A*, B*, C*, D*, F* and were not used in the calculation of GPA or as credits toward degree completion.

Quality points earned are determined by multiplying the number of hours assigned to the course by the number assigned to the grade for that course. For example, the number of quality points for a three-hour course for which a B is earned is nine, i.e. 3 x 3 = 9. See an academic advisor (https://www.shsu.edu/centers/sam-center/) for questions about calculating GPAs.

Quality points are computed for a given term on the basis of term hours attempted. A course attempted, for GPA purposes, is defined as one in which the student receives a grade of A, B, C, D, or F, excluding developmental courses.

Courses marked with “E” on a students transcript indicates "exclude" and are not calculated into the grade point average.

Please see the Student Complaints and Grievance Procedures (https://www.shsu.edu/dept/academic-affairs/grievances.html) if the student would like to dispute the grade assigned.

Repeating Courses Previously Attempted

Careful consideration should be given to the GPA when deciding to repeat a course.

- An "I" (include) is noted on the transcript record for the course with the highest grade which is calculated into the GPA.
- An "E" (exclude) is noted on the transcript record for the course with the lower grade earned which will not be calculated into the GPA.

A course repeated at a transfer institution where the highest grade is earned would require a recalculation of the GPA and total hours completed at SHSU and could affect degree requirements. See an academic advisor (https://www.shsu.edu/centers/sam-center/) to have your transcript record and degree plan reviewed.

Repeating a course previously passed (i.e., a course with any grade other than F or NC) more than once may result in the repeated course not being eligible for financial aid. A student may repeat a previously passed course that counts toward the degree only one time for the repeated course to be financial aid eligible. Second and subsequent repeats of previously passed courses may not be financial aid eligible and are subject to a financial aid review. Courses designated as repeatable for credit by the academic department will be financial aid eligible when the degree plan requirements call for multiple enrollments.

Repeated courses are considered hours attempted when calculating excessive hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) as mandated by the state and when calculating excessive hours for the purpose of Tuition Rebate (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html) at the point of graduation.

Class Attendance

1. Regular and punctual class attendance is expected of each student at SHSU.
2. Each faculty member shall inform students of their course attendance policy at the initial class meeting and include this information in the course syllabus.
3. Students are expected to meet the faculty member's attendance requirements for the course.
4. Each faculty member is expected to monitor course enrollment and class attendance.
5. A student's failure to meet the course attendance requirements may lower their grade(s), including the final course grade.
6. Each faculty member shall inform students of their policies for accepting late work or providing makeup examinations and include this information in the course syllabus.
7. Students are expected to show appropriate cause for missing or delaying major assignments or examinations.
8. Making up missed work for an absence may be allowed or declined at the discretion of the faculty member.

Student Absences on Religious Holy Days

Section 51.911(b) of the Texas Education Code (https://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=1&ch=4&rl=4) requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student who is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

Final Examinations

Final examinations are not given before the designated time in the official final examination schedule (https://www.shsu.edu/dept/registrar/calendars/final-exam-schedules.html). A student is not permitted to take a final examination before all other work for the course is completed. The final exam schedule may be located on the Registrar's website (https://www.shsu.edu/dept/registrar/calendars/final-exam-schedules.html). If a student has completed a final exam, they are ineligible to resign from the term.

Registration

- Registration Requirements (p. 42)
- Academic Advisement for Registration (p. 42)
- Texas Success Initiative (TSI) (p. 42)
- Registration (p. 43)
- Class Schedule Changes (p. 43)
- Resignation (p. 43)
- Courses at SHSU - The Woodlands Center (p. 44)
- Name Change (p. 44)
- Correct Addresses (p. 44)
- Classification of Students (p. 44)
- Transcripts (p. 44)

Registration Requirements

Information concerning registration may be obtained from the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html) provided in this publication, the Student Advising Center (SAM Center) (https://www.shsu.edu/centers/sam-center/), or from the Registrar's Office (https://www.shsu.edu/dept/registrar/students/registration/).

Academic Advisement for Registration

Sam Houston State University offers advisement throughout the year at the Student Advising Center (SAM Center). (https://www.shsu.edu/centers/sam-center/)

Students select a degree and major at the time of application to SHSU and are assigned a catalog year based on their term of acceptance. Students must meet the academic requirements of their selected degree for the assigned catalog year. In addition, a later catalog may be selected, provided the requirements are met no later than six years from the effective date of that catalog. The student is responsible for knowledge of the degree program's requirements, including any special requirements of the major and/or minor department. Students must speak to their advisor in order to make a change to their major. Academic department approval is required for all change of majors.

Some students must receive mandatory advisement prior to registering for courses. Check with the SAM Center (http://www.shsu.edu/centers/sam-center/do-i-need-advising/) to determine if advisement is required.

TSI Request Form and Exemptions (p. 42)

Submitting TSIA2 (TSI Assessment Version 2) Scores

If you have previous TSIA2 scores, you must submit the TSI Score Request Form (https://forms.office.com/pages/responsepage.aspx?id=2MtTsZKzREebOePNuGd_AMlPLqt7h_VGupw-K3xe9gpUN01WMjQwNlZWTDBEM08wN0UwNUZQQ1RKMS4u&route=shorturl) to provide SHSU with written permission to download and access your TSIA2 results.

- The Registrar's Office may be unable to locate your TSIA2 scores if the details you provide on the form do not match the information you provided to the testing center where you completed the TSIA2.
- Please allow up to two business days for your TSIA2 scores to be updated within your SHSU student record.

Exemptions

You may already be exempt (https://www.shsu.edu/dept/registrar/texas-success-initiative/exempt.html) from taking the TSI Assessment based on your standardized testing scores or other criteria.

TSI Requirements (p. 42)

Taking the TSIA2 Exam

If you are not exempt, you must complete three steps in order to meet TSI requirements:

- Step 1: Take the Pre-Assessment Activity (https://www.shsu.edu/dept/registrar/texas-success-initiative/testing.html).
- Step 2: Send the Pre-Assessment Activity certificate of completion to TSI@shsu.edu.
- Step 3: Take the TSI Assessment on-campus at the SHSU Testing Center (https://www.shsu.edu/centers/testing-center/) or remotely by using the Remote Test Application (https://secure.touchnet.com/C21329_ustores/web/store_main.jsp?STOREID=160).

TSI Placement

Students may be College Ready or Not College Ready based on TSIA2 scores.

If you DO NOT receive a College Ready classification score from the TSIA2, you must follow the developmental education policy (https://www.shsu.edu/dept/registrar/texas-success-initiative/policies.html) that requires registration into a developmental support course(s).

Not College Ready students must follow required course placements (https://www.shsu.edu/dept/registrar/texas-success-initiative/placement.html) and meet with their Academic Advisor (https://www.shsu.edu/centers/sam-center/) to confirm course selection. Students must enroll and participate in at least one developmental education course each semester until they satisfy all TSI requirements.

Developmental Education Policies (https://www.shsu.edu/dept/registrar/texas-success-initiative/policies.html)

Retesting - Things You Need to Know! (https://www.shsu.edu/dept/registrar/texas-success-initiative/retesting.html)

Additional Resources (https://www.shsu.edu/dept/registrar/texas-success-initiative/resources.html)

Visit the TSI Success Initiative (TSI) (https://www.shsu.edu/dept/registrar/texas-success-initiative/) website for additional information

Registration

Once accepted and advised at SHSU, students may register for classes during the scheduled registration periods (https://www.shsu.edu/dept/registrar/calendars/advance-registration.html). See the Registrar's website (https://www.shsu.edu/dept/registrar/students/registration/how-to.html) for instructions regarding registration.

Online courses incur an additional fee per credit hour. See the Additional Fees section on the Cashier's site (https://www.shsu.edu/dept/cashiers/resident-traditional-tuition-fees/).

To register for a mini-semester, an overall SHSU GPA of 2.50 is required.

Maximum registration hours allowed per term:

- UG – 19 hours (fall/spring term) and 14 hours (summer term)
- GR – 12 hours (fall/spring/summer terms)

Some students may have a minimum hour requirement (i.e. international students and student-athletes)

Class Schedule Changes

What should students consider when adding or dropping courses?

- Adding or dropping courses can impact financial aid. Students receiving financial aid and/or scholarships are encouraged to visit with a financial aid representative prior to adding or dropping courses.
- Adding or dropping courses can impact time to completion. Students should meet with their academic advisor (https://www.shsu.edu/centers/sam-center/) to discuss potential impacts.
- Beginning with the first class day of each term, added courses will result in tuition and fee charges that must be paid by 4:00 p.m. on the date the course(s) are added.
- An undergraduate student is allowed no more than 6 Q-drops during their combined career at all Texas public colleges and universities.
- A student, under specific conditions, may be charged a higher tuition rate for excessive undergraduate hours. Please reference Tuition for Excessive Undergraduate Hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) from the Registrar's website.
- International students must make changes through the Global Engagement Center (https://www.shsu.edu/dept/global-engagement/).

When can students change their schedules?

For registration times, please refer to Registration Dates (https://www.shsu.edu/dept/registrar/students/registration/registration-open-close-dates.html) and the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).

Resignations

A resignation is a withdrawal from all courses and becomes effective on the date it is received by the Registrar's Office. This is the date that is used for determining any refund. The student is responsible for clearing all debts owed to the university before any potential refund is issued.

A resignation will not be allowed if a grade has been earned or a final has been taken.

Students who fail to officially resign from the university will receive an "F" grade for each course in which they are enrolled. If you are enrolled in only one class and are requesting to drop the class, a resignation is required. See Academic Policy 990407 Student Resignations (https://www.shsu.edu/dept/academic-affairs/documents/aps/990407%20Student%20Resignations.pdf) for more information.

If you receive financial aid and resign, you may be responsible for the repayment of certain types of financial aid received. See the Return of Title IV Funds Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/TIVReturn.pdf) for more information. Also, review the Satisfactory

Academic Progress Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf) to better understand how resigning could impact your future aid eligibility.

NOTE:

- A resignation will withdraw a student from all registered courses in the entire term. A student cannot resign from a part of term if another part of term has been completed and a grade has been earned. Ex. If a student completes Summer I and is registered for Summer II, they will not be able to resign from Summer II.
- If this is your first semester attending SHSU and you are resigning before the Census Day (12th Class day for Fall or Spring | 4th Class day for Summer I & II), a new admissions application and non-refundable application fee are required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or Admissions. (admissions@shsu.edu)
- If a year or more has passed from the term of resignation, a new admissions application will be required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or Admissions (admissions@shsu.edu).
- Students who resign after the twelfth class day of a fall/spring term receive a mark of W (withdrawn) for each course they were enrolled in.
- If a student has received a grade in any course for that term, he/she is ineligible to resign.
- International students must be advised by the International Student Advisor before resigning.

Students considering resigning in the current term should review the Resignation Information page (https://www.shsu.edu/dept/registrar/students/registration/resignation-information.html) and the Resignation Refund Schedule (https://www.shsu.edu/dept/registrar/students/registration/drop-resignations-and-refund-policies.html).

Courses at SH - The Woodlands Center

Courses completed at this location will incur an additional fee and carry residency credit. See SH - The Woodlands Center (https://www.shsu.edu/academics/woodlands-center/) (http://www.shsu.edu/academics/woodlands-center/)website for more information.

Name Change

Appropriate documentation substantiating a legal name change for a student must be submitted to the Registrar's Office. All transcripts are issued under the student's legal name as recorded on the student's academic record. The Request for Change of Name form can be found on the Registrar's website (https://www.shsu.edu/dept/registrar/forms-and-documents/forms-and-documents.html#faculty) under Student Resources – Forms and Documents.

Correct Addresses

It is necessary to have a correct residency address on file with the university. Students who change addresses after completing registration should immediately update their addresses by logging in to MySam. (Campus Resources -> Banner Self-Service-> Personal Information -> Update Addresses and Phones)

Official university email correspondence will be sent to the assigned SHSU email address. The university assumes no obligation for the failure of a student to receive communications.

International students must contact the Global Engagement Center. (https://www.shsu.edu/dept/global-engagement/)

Classification of Students

- Freshman: 0-29
- Sophomore: 30-72

College credit hours earned at Sam Houston State University (SHSU) and hours accepted in transfer from other institutions will count toward the student's classification.

Credit awarded by examination and hours earned with the grade of Credit (CR) are counted in determining classification but are not included in determining the grade point average (GPA).

Hours earned in developmental courses are not counted toward the student's classification.

Transcripts

Options to order transcripts can be found on the Student Transcripts (https://www.shsu.edu/dept/registrar/transcripts-and-student-records/transcripts.html) website. Students with an outstanding financial balance(s) due to the university must contact Student Financial Services (https://www.shsu.edu/dept/sfs/) for direction on obtaining an official transcript.

Core Curriculum

The Core Curriculum at Sam Houston State University (SHSU) contains 42 semester credit hours, encompassing nine component areas. Each component area has a minimum credit hour requirement and a set of specific courses that may be used to satisfy the requirement. The chart below details the SHSU courses and their Texas Common Course Number (TCCN) equivalents that comprise SHSU's core curriculum.

Core Curriculum

Component Area I: Communication

Course Number	TCCN (if applicable)
Component Area I: Communication	**6 Hours Required**
ENGL 1301	ENGL 1301
ENGL 1302	ENGL 1302

Component Area II: Mathematics

Course Number	TCCN (if applicable)
Component Area II: Mathematics	**3 Hours Required**
MATH 1314	MATH 2312
MATH 1316	MATH 1316
MATH 1324	MATH 1324
MATH 1332	MATH 1332
MATH 1342	MATH 1342
MATH 1384	MATH 1350
MATH 1410	
MATH 1420	MATH 2413
PHIL 2352 [1]	

[1] Students with a documented learning disability and approval from the Department of Mathematics may use PHIL 2352 (Introduction to Contemporary Logic) to satisfy Component Area II: Mathematics.

Component Area III: Life and Physical Science

Course Number	TCCN (if applicable)
Component Area III: Life and Physical Science	**8 Hours Required**
BIOL 1401	
BIOL 1406	
BIOL 1407	
BIOL 1408	
BIOL 1436	
BIOL 2401	BIOL 2404
BIOL 2403	BIOL 2401
BIOL 2404	BIOL 2402
BIOL 2411	
BIOL 2413	
CHEM 1406	CHEM 1406
CHEM 1407	CHEM 1407
CHEM 1411	CHEM 1411
CHEM 1412	CHEM 1412
GEOG 1401	
GEOL 1403	
GEOL 1404	
GEOL 1405	
GEOL 1436	
ISCI 1436	
PHYS 1401	PHYS 1401

PHYS 1403	
PHYS 1404	
PHYS 1411	PHYS 2425
PHYS 1422	PHYS 2426

Component Area IV: Language, Philosophy, and Culture

Course Number	TCCN (if applicable)
Component Area IV: Language, Philosophy, and Culture	**3 Hours Required**
ARAB 2311	ARAB 2311
ARAB 2312	ARAB 2312
ENGL 2332	ENGL 2332
ENGL 2333	
FREN 2311	FREN 2311
FREN 2312	FREN 2312
GEOG 2355	GEOG 1303
GEOG 2356	GEOG 1303
GERM 2311	GERM 2311
GERM 2312	GERM 2312
HSTY 2311	HIST 2311
HSTY 2312	HIST 2312
MCOM 1330	
MUSI 1379	
PHIL 1301	PHIL 1301
PHIL 2306	PHIL 2306
SGNL 2311	
SGNL 2312	SGNL 2312
SOCI 2319	SOCI 2319
SPAN 2311	SPAN 2311
SPAN 2312	SPAN 2312

Component V: Creative Arts

Course Number	TCCN (if applicable)
Component Area V: Creative Arts	**3 Hours Required**
ARTS 1301	ARTS 1301
ARTS 1302	
ARTS 1303	ARTS 1303
DANC 1372	
CAMX 2301	
MCOM 2366	
MUSI 1306	MUSI 1306
MUSI 1310	MUSI 1310
MUSI 2348	MUSI 1308
PLSC 2399	ARTS 1301
THEA 1366	

Component Area VI: U.S. History

Course Number	TCCN (if applicable)
Component Area VI: U.S. History	**6 Hours Required**
HSTY 1301	HIST 1301
HSTY 1302	HIST 1302

Component Area VII: Political Science/Government

Course Number	TCCN (if applicable)
Component Area VII: Political Science / Government	**6 Hours Required**
POLS 2305	GOVT 2305
POLS 2306	GOVT 2306

Component Area VIII: Social and Behavioral Sciences

Course Number	TCCN (if applicable)
Component Area VIII: Social and Behavioral Sciences	**3 Hours Required**
ANSC 2360	
BESL 2301	
COMS 2386	SPCH 1318
CRIJ 2361	CRIJ 1301
ECON 2300	ECON 1301
ECON 2301	ECON 2301
ECON 2302	ECON 2302
GEOG 1300	
HLTH 2383	
MCOM 1307	
PHIL 2303	PHIL 2303
PSYC 1301	
SOCI 1301	

Component Area IX: Component Area Option

Course Number	TCCN (if applicable)
Component Area IX: Component Area Option	**4 Hours Required**
Additional course from Component Area 4	
BUAD 1301	
BUAD 2321	
COMS 1361	
COMS 2382	
ECON 1100	
KINE 2115	PHED 1164
MCOM 1371	
MCOM 1130	
NGLI 1101	
UNIV 1101	
UNIV 2112	
The 4th credit hour of MATH 1410	
The 4th credit hour of MATH 1420	

Revised Fall 2025
Revised Fall 2024
Revised Fall 2000
Revised July 24th, 2001
Revised May 16, 2002
Revised March 3, 2004
Revised August 2014
Revised March 2016
Revised March 2018
Revised May 2019

Transfer of Credit

The following guidelines and definitions pertain to the *Transfer Curricula and* Resolution of Transfer Disputes for Lower-Division Courses *(*http://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC/?tac_view=5&ti=19&pt=1&ch=4&sch=B&rl=Y*)* established by the Texas Higher Education Coordinating Board.

The definitions listed below were established by the Coordinating Board and will serve as criteria to resolve disputes. The publications *Transfer of Credit Policies and Curricula of the Texas Higher Education Coordinating Board* and *Community College General Academic Course Guide Manual: A Manual of Approved General Academic Transfer Courses for State Appropriations to Texas Public Community Colleges* are the references for this issue: **The following criteria for lower-division and upper-division course credit were adopted by the Task Force to Update the *Academic Course Guide Manual*.**

1. **Criteria for Lower-Division Course Credit**
   Lower-Division (Baccalaureate/Associate Degree) Courses
   Courses offered in the first two years of college study are generally those which:
   a. Are identified by a majority of public 4-year undergraduate institutions in the state as courses intended to comprise the first two years of collegiate study.
   b. Stress development of disciplinary knowledge and skill at an introductory level.
   c. Include basic principles and verbal, mathematical, and scientific concepts associated with an academic discipline

   Lower-division courses, designated as 1000- or 2000-level, taken at an institution other than a senior four-year institution do **not** satisfy the advanced hours requirement at Sam Houston State University. While these credit hours may be recorded on the student's academic record, and may satisfy a specific course requirement, they ***will not*** meet the **advanced** credit hour requirements. Advanced credit hours are only granted from four-year, baccalaureate-granting institutions.

2. **Criteria for Upper-Division Course Credit**
   Upper-Division (Baccalaureate) Courses
   Courses offered only in the third or fourth years of a baccalaureate program are those which:
   a. Are identified by a majority of public 4-year undergraduate institutions in the state as courses intended to comprise the third and fourth years of post-secondary study.
   b. Involve theoretical or analytical specialization beyond the introductory level.
   c. Require knowledge and skills provided by previous courses for successful performance by students.
   Upper-division courses, designated as 3000- or 4000-level, taken at community, junior, or "two-year" colleges do **not** satisfy the advanced hours requirement at Sam Houston State University. While these credit hours may be recorded on the student's academic record, and may satisfy a specific course requirement, they ***will not*** meet the **advanced** credit hour requirements. Advanced credit hours are only granted from four-year, baccalaureate-granting institutions.

3. **Free Transferability**
   Lower-division courses included in the *Academic Course Guide Manual* and specified in the definition of "Lower-Division Course Credit" shall be freely transferable to and accepted as comparable degree credit by any Texas public institution of higher education where the equivalent course is available for fulfilling baccalaureate degree requirements. It is understood that each Texas institution of higher education may have limitations that invalidate courses after a specific length of time.
   For Texas community colleges, these freely transferable courses are identified in the latest revised edition of Coordinating Board publication Lower Division Academic Course Guide Manua *(*http://www.thecb.state.tx.us/AAR/UndergraduateEd/WorkforceEd/acgm.htm*),* (revised 2014). Specifically excluded are courses designated as vocational, English as a Second Language, ESL/ESOL, technical, developmental or remedial, and courses listed as "basic skills."
   For senior four-year institutions, lower-division courses that have the same course content and CIP codes as approved by the Coordinating Board shall bear equivalent credit. Specifically excluded are courses designated as ESL/ESOL, technical and developmental/remedial courses.
   Within the spirit of the law, it is realized that differences in interpretation of "same course content" may generate disputes. Courses taken at community, junior, or "two-year" colleges (1000-, 2000-, 3000-, or 4000-level) do **not** satisfy the advanced hours requirement at Sam Houston State University. While these credit hours may be recorded on the student's academic record, and may satisfy a specific course requirement, they ***will not*** meet the ***advanced*** credit hour requirements. Advanced credit hours are only granted from four-year, baccalaureate-granting institutions.

   WECM Courses are designated by the Texas Higher Education Coordinating Board as workforce education (technical) courses offered for credit and CEUs (Continuing Education Units). While these courses are designed to transfer among state community colleges, they are not designed to automatically transfer to public four-year colleges and universities. For more information, visit Career & Technical Education/Workforce Initiatives (http://www.thecb.state.tx.us/aar/undergraduateed/workforceed/).

4. **Field of Study Curriculum**
   The Field of Study Curriculum is a set of courses that generally apply toward the lower-division requirements for a baccalaureate degree in a specific academic area at a general academic teaching institution.

5. **Core Curriculum**
   The curriculum in liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of an institution of higher education are required to complete before receiving an academic undergraduate degree.

6. **Disputes**
   Transfer disputes may arise when a lower-division course is not accepted for credit by a Texas institution of higher education. To qualify as a dispute the course(s) in question must be offered by the institution denying the credit (receiving institution), or in the case of upper-level institutions, must be published as a lower-division course accepted for fulfilling lower-level requirements. For community colleges, the course(s) must be listed in the *Lower Division Academic Course Guide Manual*, and be offered at the receiving institution. Additionally, the sending institution may challenge the receiving institution's denial of credit.
   Students at Sam Houston State University who require additional information/clarification regarding Transfer Dispute Resolution Guidelines should contact Undergraduate Admissions, telephone (936) 294-1828.
   The University reserves the right to refuse to accept transfer credit when the instructor of record does not meet the requisite academic credentials. Courses taken at community colleges do not satisfy the advanced hours required at Sam Houston State University.

The Texas Common Course Numbering System was developed in part to assist students in identifying which courses at one college will meet specific course requirements at another college. In other words, the common course numbering system promotes the successful transfer of course work among colleges and universities in Texas, making the transfer process easy for students.

The common course number has a standardized four-letter prefix followed by a four-digit number —example, ENGL 1301. The four-letter prefix identifies the subject area. Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours a student will earn upon completion of the course. Most often this digit will be a 1, 2, 3, or 4. The final two digits serve to establish the sequence in which courses are generally taken.

The following is a website listing the Sam Houston State University equivalents for common course numbers. TCCN (http://www.tccns.org)

Career & Technical Financial Information

Support Services

- Academic Success Center (p. 125)
- Advising (Student Advising and Mentoring Center) (p. 126)
- Data Analytics and Decision Support (DADS) (p. 126)
- Information Technology (http://catalog.shsu.edu/undergraduate/support-services/academic-support-services/#it-sam)
- Library, Newton Gresham (p. 126)
- Mathematics Tutoring Center (p.)
- Reading Center (p.)
- SHSU Online (p. 127)
- Testing Center (p. 128)

- Alumni Relations and Development (p. 131)
- Athletics (p. 131)
- Bearkat OneCard Services (p. 132)
- Campus Recreation (p.)
- Career Services (p. 133)
- Counseling Center (p. 133)
- Dean of Students' Office (p. 134)
- First-Generation Center (p. 134)
- Global Engagement Center (p. 135)
- Health Center (p. 135)
- James and Nancy Gaertner Performing Arts Center (p. 136)
- Lowman Student Center (p. 136)
- Museum, Sam Houston Memorial (p. 137)
- Print Services (p. 137)
- Public Safety Services, University Police, and Parking & Transportation Office (p. 137)
- Residence Life (p. 139)
- Services for Students with Disabilities (p. 140)
- Students' Legal & Mediation Services (p.)
- Student Money Management (p. 140)
- Student Services, Division of (p. 142)
- Veterans Resource Center (p. 142)
- Visitor Services (p. 143)

Glossary

Academic Advisor
A professional who helps students with academic and career planning.

Academic Calendar
A calendar indicating key dates and deadlines for important academic requirements and/or activities including, but not limited to, the start and end dates of classes, holidays, exam days, and registration dates.

Academic Year
The time frame from the start of a fall semester until the start of the subsequent fall semester. It typically is divided into the fall, spring, and summer semesters.

Accreditation
An endorsement from an oversight organization indicating that the educational institution and/or academic degree program meets or exceeds specific measures of quality.

Advanced Courses
Courses with content designed to be taken during the junior or senior year. At SHSU, these courses are numbered in the 300s or 400s.

Advanced Credit
Credit earned for advanced courses at universities. Courses transferred from a community college do not earn advanced credit.

Audit, Course
Enrollment in a course as a non-credit seeking student, with no record on the transcript.

Bachelor's Degree
An academic credential from a university earned after completing a specific program of study. Typically, the program of study will include a general education component, a major, degree related requirements, and electives and/or a minor. The minimum number of credits is 120 hours.

CLEP
College **L**evel **E**xamination **P**rogram. A series of tests available to students to demonstrate proficiency in various college subjects. CLEP exams may be used to earn college credits for select courses.

Classification
Indication of a student's progress toward degree completion based upon the number of hours completed. The categories of undergraduate classification are Freshman, Sophomore, Junior, and Senior.

Class Day
Any day in the academic semester when university classes are scheduled. The number of class days is used for drop dates, resignation dates, and tuition refund schedules. When determining the number of class days (e.g., 12th class day), start counting with the first day of on-campus daytime courses and increase by one each day the university has scheduled classes.

Closed Classes
Classes that have reached the designated maximum enrollment capacity or are not available for on-line registration.

Commencement
An event during which degrees are awarded to graduating students. SHSU holds commencement ceremonies every May, August, and December.

Concurrent Enrollment
Enrollment in courses at two institutions during the same semester.

Core Curriculum
The curriculum in liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of an institution of higher education are required to complete as part of an undergraduate academic degree program. Also referred to as the general education component.

Course Equivalency Guide
A table listing courses from a specific institution and the corresponding courses at SHSU that are considered to have the same content. The course equivalency guide is used to identify courses that may transfer to SHSU.

Course Numbers
A numeric code signifying the anticipated academic level and the credit hour value of a course. At SHSU, course numbers consist of four digits. The first digit in the sequence indicates the course level and suggests the academic year in which the course is typically taken. Lower-level undergraduate courses have a "1" or "2" in the first digit; upper-level undergraduate courses have a "3" or "4" in the first digit; and graduate courses have a "5" or higher in the first digit. The second digit in the sequence indicates the number of semester credit hours.

Course Prefix
Abbreviation identifying the academic discipline of a course (e.g., ACCT signifies Accounting, CRIJ signifies Criminal Justice, and BIOL signifies Biology).

Course Reference Number (CRN)
A unique six-digit number used to identify a specific course offering within a given term. The CRN is used to select courses when registering.

Credit by Examination
An award of academic credit and placement based on examination scores.

Credit Hour (also called Semester Credit Hour)
A unit of measure attached to academic courses, usually reflecting the number of lecture hours per week a course meets in a fall or spring semester.

Curriculum
A combination of courses that compose a particular area of study.

Dean
The highest ranking academic official in a college (e.g., College of Education).

Declaration of Major/Minor Form
The form submitted by an undergraduate student to officially declare a major and/or minor. The form is submitted to the departmental chair of the department housing the student's declared major.

Degree
An academic credential awarded upon the completion of a specific area of study. Universities offer baccalaureate degrees at the undergraduate level and master's and doctoral degrees at the graduate level.

Degree Plan
A specific list of academic requirements that must be completed to earn a degree.

Departmental Chair
An individual responsible for the administrative functions of an academic department. The functions include, but are not limited to, coordination of curriculum planning, faculty course assignments, and evaluation of faculty performance.

Developmental Courses
Courses designed to help student achieve the minimum standards set by the Texas Success Initiative (TSI). Developmental courses are listed with either a "031" or "032" course number and **do not** count toward the hours needed for graduation.

Doctoral Degree
A graduate degree that usually requires two or more years of study beyond the master's degree and progressively more credit hours, varying by discipline.

Double Degree
The concurrent pursuit of two specific majors, each with a different type of degree (e.g., BS with a major in mathematics and a BA with a major in English). The student must be awarded both degrees at the same graduation date.

Double Major
The concurrent pursuit of two specific majors with both resulting in the same type of degree (e.g., BS with majors in Biology and Chemistry). The student must be awarded both majors at the same graduation date.

Drop/Add
A term used to identify the act of deleting/adding courses from/to an established schedule.

Drop Date
The latest date that a student may drop a class without a letter grade being assigned. Dropping a class after this date results in a grade of "F" for the course.

Dual Credit
The receipt of high school and college credit for the same course for qualified high school students enrolled in college-level courses.

Dual Degree
A degree program allowing students to pursue two different degrees concurrently, with select courses satisfying the requirements of both degrees and shortening completion time for the combined programs. Dual degree programs must meet minimum credit hour requirements as specified by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

Elective

A degree plan requirement, not directed to a specific area of academic content, contributing to the credit hour requirements of a degree.

Faculty
Appropriately credentialed individuals responsible for the delivery of course content and academic research and service.

FAFSA (Free Application for Federal Student Aid)
A federal form required from all students seeking need-based financial aid. The FAFSA collects family income and other financial information and is completed and filed by the student or his/her family.

Fees
Non-tuition charges dedicated to cover the cost of specific academic and/or service functions of the university.

Final Exam
An exam, usually comprehensive, designed to measure a student's retention and understanding of the course material. Final exams are scheduled for the last week of the semester and do not necessarily correspond to the regular class meeting time.

Freshman
The classification of a student who has completed 0 to 29 semester credit hours.

Full-Time Undergraduate Student
Full-time is 12 hours for an undergraduate in fall/spring and in summer. 6 hours is considered half-time for the same semesters. 6 hours is only considered full-time for **graduate** students in the summer.

Grade Point Average (GPA)
Numeric average of academic performance on a 0-to-4 point scale. The GPA is the ratio of grade points earned to credit hours attempted.

Graduate Certificate
An academic, non-degree credential from a university awarded upon completion of a set of master's-level courses indicating mastery of a specialized field or subject area. Graduate certificates, requiring between 9 and 29 semester credit hours (SCH), may be offered as stand-alone credentials or embedded within a master's degree.

Grants
A type of financial assistance not requiring repayment.

International Baccalaureate
The International Baccalaureate (IB) Diploma Program is a comprehensive two-year pre-college curriculum that is offered in high schools across the globe that may lead to college credits.

Junior
The classification of a student who has completed 60 to 89 semester credit hours.

Major
A student's concentrated area of study. Most majors consist of a minimum of 30 credit hours within a specific area of study.

Master's Degree
A graduate degree that usually requires two or more years of study beyond the bachelor's degree. The minimum number of credits is 30 hours.

Minor
A student's secondary area of study. Most minors consist of a minimum of 18 credit hours within a specific area of study.

Overload
A course load in excess of 19 hours in a fall or spring semester of 7 hours in a summer session. Overloads must be approved by the student's academic Dean.

Part-Time Undergraduate Student
Undergraduate students enrolled in less than twelve credit hours during a fall or spring semester or less than six credit hours during a summer session. Correspondence courses do not apply toward the credit hour count in determining status.

Prerequisite
An academic requirement (e.g., completion of an earlier sequenced course) that must be satisfied prior to the enrollment in a specific course.

Probation
An academic standing placed upon undergraduate students who fall below a 2.0 SHSU or overall grade point average at the close of any semester or summer school during which one or more semester hours were attempted.

Q-Drop

A drop made after the last date for tuition refunds but before a drop would result in the grade of "F." Students will be allowed no more than five Q-drops during their academic career at Sam Houston State University.

Resignation
Withdrawing from all classes in which the student is enrolled at the university.

Second Degree
The pursuit of a degree at the same level of a degree previously awarded (e.g., baccalaureate).

Section, Course
A number used to distinguish between multiple offerings of the same course. On a student's schedule, the section is the number after the period following the course number (e.g., ENG164.02 indicates section 2 of ENG 164).

Semester
Period of time during which academic courses are offered. SHSU offers fall, spring and summer semesters.

Semester Credit Hour
See Credit Hour.

Senior
The classification of a student who has completed 90 or more semester credit hours.

Sophomore
The classification of a student who has completed 30 to 59 semester credit hours.

Suspension
An academic standing imposed on undergraduate students with a SHSU or overall GPA less than 2.0 for two or more successive semesters. Students on suspension are not allowed to enroll in classes without the permission of the appropriate academic Dean.

Syllabus
A document containing academic and administrative information about a course. The syllabus is provided by the instructor at the beginning of the semester and typically includes a lesson schedule, dates of exams, and quizzes, assigned books and readings, e-mail/phone number and the best time to reach the instructor, and an explanation of how the final grade will be determined.

Transcript, Official
A university approved document providing information about a student's academic performance, including but not limited to, semester by semester listing and grades of courses attempted, credits earned, academic standing, GPA, TSI status, and admission exams.

TSI (Texas Success Initiative)
A Texas law requiring all entering college students to be assessed for college readiness in mathematics, reading and writing unless the student qualifies for an exemption.

Tuition
A per credit hour charge per course. There is a different rate for Texas residents and non-Texas residents.

Undergraduate
A student pursuing a bachelor's degree.

Undergraduate Certificate
An academic, non-degree credential from a university awarded upon completion of a set of baccalaureate-level courses indicating mastery of a specialized field or subject area. Undergraduate certificates, requiring between 12 and 36 semester credit hours (SCH), may be offered as stand-alone credentials or embedded within a baccalaureate degree.

Withdrew Failing (WF)
A mark indicating a student was not performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.

Withdrew Passing (WP)
A mark indicating a student was performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.

Polytechnic College

Administrative Officers

Name	Title
Chad Hargrave, PhD	Vice President & Chief Research Officer
Clayton Cottle	Assistant Vice President of Operations & Strategic Initiatives
Jonathan Thomas	Director of Strategic Partnerships & Technology Transfer
Stephen Mujeye, PhD	Director of Computer Information Systems & Security; Assistant Professor of Practice
Scott Meyer, PhD	Director of Paralegal Studies; Assistant Professor of Practice
Jody Czajkoski, JD	Director of Business Development

About Us

For 145 years, Sam Houston State University has championed student success, providing access to quality education, including first-generation students. Founded after World War II as the Josey School to support returning military members, the Polytechnic College continues SHSU's mission of workforce-aligned education. Today, it offers flexible, practical pathways to build valuable skills while keeping the option to pursue a four-year degree open.

Polytechnic certificates and applied associate degrees provide students with hands-on, practical experiences that translates directly into marketable skills and maximizes employment opportunities and career mobility.

Why SHSU Polytechnic?

In a rapidly evolving workforce, Sam Houston State University's Polytechnic College (https://sam.edu/) is here to equip you with the skills you need to succeed. Our industry-aligned programs offer practical, applied education that meets current industry demands.

At SamPoly (https://sam.edu/), we believe in the power of applied knowledge to transform lives and create lasting impact. Here, learning is hands-on, empowering and focused on preparing you to lead and thrive in your chosen field.

Polytechnic certificates and applied associate degrees provide students with hands-on, practical experiences that translates directly into marketable skills and maximizes employment opportunities and career mobility. Some course credit earned through SHSU Polytechnic certificates and applied associate degrees will apply towards four-year bachelor's degrees in a related academic discipline.

At SamPoly we believe collaboration is the key to unlocking innovation and shaping the workforce of tomorrow. By partnering with us, you can play a pivotal role in preparing students to meet the challenges of a dynamic and ever-evolving global economy. Together, we can bridge the gap between education and industry, creating opportunities that make a lasting impact.

Educational Partners

We collaborate with educational institutions to develop innovative pathways, such as dual-credit courses and shared resources, to empower students at every stage of their academic journey. By working together, we can expand access to quality education, foster student success and build a stronger community of learners.

Industry Partners

Our programs are designed with input from industry leaders to ensure graduates are equipped with the skills employers need. By partnering with us, you can help shape curriculum, provide internships or apprenticeships and connect with a pool of job-ready talent. Whether you're looking to upskill your existing workforce or hire skilled graduates, our collaboration can drive innovation and deliver measurable value for your business.

Career & Technical Programs

- Computer Information Systems and Security, Level I Certificate | AAS (p. 60)
- Paralegal Studies, Level II Certificate | AAS (p. 63)
- Practical AI and Intelligent Automation, Level I Certificate (p. 66)

Artificial Intelligence

ITAI 1370. AI Fundamentals & Platforms. 3 Hours.
Students acquire a foundational understanding of AI, its applications, and how to access and use AI platforms without requiring advanced technical knowledge.

ITAI 1371. AI Ethics and Society. 3 Hours.
Students are introduced to the ethical implications of AI technologies, including issues of bias, privacy, and social impacts of AI deployment.

ITAI 1372. AI in Industry. 3 Hours.
Students explore how AI is being applied across different industries and identify potential opportunities for AI integration.

ITAI 1373. Data Analysis & Visualization. 3 Hours.
Students learn the basics of data analysis and visualization, focusing on turning raw data into actionable insights accessible tools.

ITAI 1374. Automating Workflows. 3 Hours.
Students are introduced to the fundamentals of Robotic Process Automation (RPA) and learn how to automate repetitive tasks using UiPath.

ITAI 1375. AI-Powered Data Insights. 3 Hours.
Students generate AI-driven insights from data using Microsoft Power Bi.

ITAI 2370. AI for Customer Service. 3 Hours.

ITAI 2371. Natural Language Processing. 3 Hours.
Students explore Natural Language Processing (NLP) and use IBM Watson to analyze and process text data.

ITAI 2372. Image and Text Analysis. 3 Hours.
Students employ Google Cloud AI's tools for analyzing images and text, enabling students to leverage advanced AI capabilities for media analysis.

ITAI 2373. Predictive Analytics. 3 Hours.
Students implement predictive analytics models using Microsoft Azure AI, enabling students to forecast outcomes based on data.

ITAI 2374. Automating Customer Insights. 3 Hours.
Students use IBM Watson Discovery to automate the extraction of insights from customer data, enhancing data-driven decision-making processes.

ITAI 2375. Capstone Project. 3 Hours.
Students apply the knowledge and skills acquired throughout the course to solve a real-world problem using AI technologies.

Computer Maintenance Technician

CPMT 1305. IT Essentials 1: PC Hardware and Software. 3 Hours.
Provides comprehensive overview of computer hardware and software and an introduction to advanced concepts addressed by Cisco certification. Topics may adapt to changes in industry practices.

Data Processing

ITSC 1305. Introduction to PC Operating Systems. 3 Hours.
Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.

ITSC 1316. Linux Installation and Configuration. 3 Hours.
Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

ITSC 1342. Shell Programming. 3 Hours.
Reading, writing, and debugging shell scripts. Development of scripts to automate frequently executed sequences of commands. Covers conditional logic, user interaction, loops, and menus to enhance the productivity and effectiveness of the user. Intended for programmers who are familiar with operating environments and reading and writing various shell scripts.

Information Science

ITNW 1309. Fundamentals of Cloud Computing. 3 Hours.
Introduction to cloud computing from a business and technical perspective, including cloud concepts, services, architecture, system integration, connectivity, data center migration, administration, security, compliance and technical support. Coverage includes preparation for industry certifications. Topics may adapt to changes in industry practices.

ITNW 1325. Fundamentals of Networking Technologies. 3 Hours.
Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

Information Security

ITSY 1300. Fundamentals of Information Security. 3 Hours.
An introduction to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed.

ITSY 1342. Information Technology Security. 3 Hours.
Instruction in security for network computer hardware, software, virtualization, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Topics may adapt to changes in industry practices.

ITSY 2300. Operating System Security. 3 Hours.
Safeguard operating systems by demonstrating support skills and designing and implementing security processes. Identify security threats and monitor security implementations. Use best practices to configure operating systems to industry security standards.

ITSY 2301. Firewalls and Network Security. 3 Hours.
Identify elements of secure network design that may include segmentation, Firewall implementation or a combination thereof to mitigate various types of security threats and attacks. Use Best Practices to design, implement, monitor and manage a network security plan. Examine security incident postmortem reporting and ongoing network security activities.

ITSY 2330. Intrusion Detection. 3 Hours.
Computer information systems security monitoring, intrusion detection, and crisis management. Includes alarm management, signature configuration, sensor configuration, and troubleshooting components. Emphasizes identifying, resolving, and documenting network crises and activating the response team.

ITSY 2341. Security Management Practices. 3 Hours.
In-depth coverage of security management practices, including asset evaluation and risk management; cyber law and ethics issues; policies and procedures; business recovery and business continuity planning; network security design; and developing and maintaining a security plan.

ITSY 2342. Incident Response & Handling. 3 Hours.
In-depth coverage of incident response and incident handling, including identifying sources of attacks and security breaches; analyzing security logs; recovering the system to normal; performing postmortem analysis; and implementing and modifying security measures.

ITSY 2345. Network Defense & Countermeasu. 3 Hours.
This is a practical application and comprehensive course that includes the planning, design, and construction of defenses for a complex network that will sustain an attack, document events, and mitigate the effects of the attack.

Legal Assistant/Paralegal

LGLA 1303. Legal Research. 3 Hours.
Presents legal research techniques emphasizing the paralegal's role.

LGLA 1305. Legal Writing. 3 Hours.
Fundamentals of legal writing techniques including case and fact analysis, citation formats, and legal writing styles emphasizing the paralegal's role in legal writing.

LGLA 1311. Introduction to Law. 3 Hours.
Presents legal terminology relating to substantive areas of law and the federal and state judicial systems. Emphasizes the paralegal's role in the legal system.

LGLA 1313. Introduction to Paralegal Studies. 3 Hours.
An overview of the paralegal profession including, professional regulation, trends and issues, ethical obligations, and the paralegal's role in the delivery of legal services.

LGLA 1317. Law Office Technology. 3 Hours.
Computer technology and software applications within the law office emphasizing the paralegal's role in the use of law office technology.

LGLA 1345. Civil Litigation. 3 Hours.
Presents fundamental concepts and procedures of civil litigation including pretrial, trial, and post-trial phases of litigation and emphasizes paralegal's role in civil litigation.

LGLA 1351. Contracts. 3 Hours.
Presents fundamental concepts of contract law including formation, performance, and enforcement of contracts under the common law and the Uniform Commercial Code with emphasis on the paralegal's role in contract law.

LGLA 1355. Family Law. 3 Hours.
Fundamental concepts of family law including formal and informal marriages, divorce, annulment, marital property, and the parent-child relationship with emphasis on the paralegal's role in family law.

LGLA 1380. Cooperative Education - Legal Assistant/Paralegal. 3 Hours.
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

LGLA 2305. Interviewing & Investigating. 3 Hours.
A study of techniques used to locate, gather, document, and manage information with emphasis on developing interview and investigative skills, and the paralegal's role in interviewing and investigating legal matters.

LGLA 2307. Law Office Management. 3 Hours.
Fundamentals of principles and structure of management, administration, and substantive systems in the law office including law practice technology as applied to paralegals.

LGLA 2313. Criminal Law and Procedure. 3 Hours.
Fundamental concepts of criminal law and procedure from arrest to final disposition including principles of federal and state law emphasizing the role of the paralegal in the criminal justice system.

LGLA 2331. Advanced Legal Research & Writing. 3 Hours.
Builds on previous legal research and writing courses and covers standard and electronic research techniques and preparation of complex legal documents with emphasis on the paralegal's role.

LGLA 2333. Advanced Legal Document Preparation. 3 Hours.
Use of office technology skills in preparation of legal documents by paralegals based on hypothetical situations drawn from various areas of law.

LGLA 2335. Advanced Civil Litigation. 3 Hours.
Implementation of advanced civil litigation techniques with emphasis on the paralegal's role. Builds upon skills acquired in prior civil litigation courses.

LGLA 2337. Mediation. 3 Hours.
Fundamental concepts of mediation and alternative dispute resolution emphasizing the paralegal's role assisting in the mediation process.

LGLA 2339. Certified Paralegal Exam Review. 3 Hours.
A review of the mandatory and optional topics covered in the Certified Paralegal Examination administered by the National Association of Legal Assistants.

LGLA 2341. Evidence. 3 Hours.
This course presents evidentiary concepts including gathering evidence, identifying evidentiary arguments, preparing evidence for trial, emphasizing the paralegal's role.

LGLA 2381. Cooperative Ed II- Paralegal Assistant. 3 Hours.
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Programming

ITSE 1359. Introduction to Scripting Languages. 3 Hours.
Introduction to scripting languages including basic data types, control structures, regular expressions, input/output, and textual analysis. Topics may adapt to changes in industry practices.

Level I Certificate & AAS, Computer Information Systems and Security

Additional information: Reference the SHSU Polytechnic College (https://sam.edu/) page for additional information.

Program Description

The Computer Information Systems and Security AAS & Computer Support Specialist Level I Certificate is a workforce program designed to equip students with the knowledge and technical skills to work as computer support specialists with a focus on information security. The program coursework focused on computer support is designed to equip students with the skills and knowledge necessary to provide technical assistance to computer users in various settings. User support-focused courses in this program cover the fundamental concepts of computer hardware, software, networks, and customer service. Students will learn how to troubleshoot common computer problems, provide technical support, and ensure effective communication with end-users. The need for information security in the computer support field is growing rapidly. This program addresses the growing need of IT service providers to enhance security and mitigate cyber threats for end-users. The information security-focused coursework in this program will provide students with the skills necessary for protecting computer systems, networks, and data from cyber threats to ensure the integrity, confidentiality, and availability of information. Through hands-on labs, applied coursework, and industry-relevant projects, the program covers a wide range of topics in computer system support and cybersecurity, preparing students for the growing demand for information security professionals in various industries, including government, healthcare, finance, and technology. Graduates with the Level I Certificate credential will be able to enter the IT industry as a computer user support specialist. Graduates with the Associate of Applied Science credential will be able to evaluate and provide guidance for system and network security, design and install secure network systems, and monitor and maintain network traffic and security.

Statewide Industry Insights

- Current Workforce: 31,931
- Average Salary: $91,700
- Open Positions: 2,895

Data provided by Lightcast, 2024

Code	Title	Hours
Level I Certificate, Computer Support Specialist		
CPMT 1305	IT Essentials 1: PC Hardware and Software	3
ITNW 1309	Fundamentals of Cloud Computing	3
ITNW 1325	Fundamentals of Networking Technologies	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSE 1359	Introduction to Scripting Languages	3
ITSY 1300	Fundamentals of Information Security	3
ITSY 1342	Information Technology Security	3
ITSY 2300	Operating System Security	3
ITSY 2301	Firewalls and Network Security	3
Total Hours		**27**

Note: The Level I certificate program stacks into the AAS curriculum.

Code	Title	Hours
AAS, Computer Information Systems and Security		
COMS 2382	Communication for Business & the Professions [1]	3
ENGL 1301	Composition I [2]	3
MATH 1332	College Mathematics [3]	3
MCOM 1330	Media, Culture and Society [4]	3
PHIL 2303	Critical Thinking [5]	3
CPMT 1305	IT Essentials 1: PC Hardware and Software	3
ITNW 1309	Fundamentals of Cloud Computing	3
ITNW 1325	Fundamentals of Networking Technologies	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSC 1316	Linux Installation and Configuration	3
ITSC 1342	Shell Programming	3
ITSE 1359	Introduction to Scripting Languages	3
ITSY 1300	Fundamentals of Information Security	3
ITSY 1342	Information Technology Security	3

ITSY 2300	Operating System Security	3
ITSY 2301	Firewalls and Network Security	3
ITSY 2330	Intrusion Detection	3
ITSY 2341	Security Management Practices	3
ITSY 2342	Incident Response & Handling	3
ITSY 2345	Network Defense & Countermeasu	3
Total Hours		**60**

1 COMS 2382 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option).
2 ENGL 1301 satisfies the Core Curriculum requirement for Component Area I (Communications).
3 MATH 1332 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
4 MCOM 1330 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
5 PHIL 2303 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Additional information: Reference the SHSU Polytechnic College (https://sam.edu/) page for additional information.

Level I Certificate, Computer Support Specialist

First Year

Fall	**Hours**	**Spring**	**Hours**
Term 1		Term 3	
CPMT 1305		3 ITSE 1359	3
ITSY 1300		3 ITSY 2300	3
ITSC 1305		3 ITSY 2301	3
Term 2			
ITNW 1309		3	
ITNW 1325		3	
ITSY 1342		3	
		18	**9**

Total Hours: 27

Note: The Level I certificate program stacks into the AAS curriculum. All courses are scheduled for 7.5-weeks in length.

AAS, Computer Information Systems and Security

First Year

Fall	**Hours**	**Spring**	**Hours**	**Summer**	**Hours**
Term 1		Term 3		Term 5	
CPMT 1305		3 ITSE 1359		3 MATH 1332 or 1314[1]	3
ITSY 1300		3 ITSY 2300		3 PHIL 2303[2]	3
ITSC 1305		3 ITSY 2301		3 Term 6	
Term 2		Term 4		ENGL 1301[3]	3
ITNW 1309		3 ITSC 1316		3 MCOM 1330[4]	3
ITNW 1325		3 ITSC 1342		3	
ITSY 1342		3 ITSY 2341		3	
		18		**18**	**12**

Second Year

Fall	**Hours**
Term 7	
COMS 2382[5]	3
ITSY 2330	3
ITSY 2342	3
Term 8	

ITSY 2345	3
	12

Total Hours: 60

Note: All courses are scheduled for 7.5-weeks in length.

1 MATH 1332 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 PHIL 2303 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 ENGL 1301 satisfies the Core Curriculum requirement for Component Area I (Communications).
4 MCOM 1330 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
5 COMS 2382 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Level I Certificate and AAS Program in Computer Information Systems and Security is designed to provide graduates with the following marketable skills:

- Firewall configuration and management, intrusion detection systems, intrusion prevention systems.
- Operating systems administration and management, Windows server security, Linux system administration and hardening, cloud infrastructure administration and security.
- Network discovery, security auditing, and basic scripting.
- Implementation of secure protocols, log analysis, security information, and event management.
- Security audits, risk assessment, and risk management protocols.

Level II Certificate & AAS, Paralegal Studies

Additional information: Reference the SHSU Polytechnic College (https://sam.edu/) page for additional information.

Program Description

The Paralegal Studies Program is designed to equip students with the practical knowledge and skills required to support legal professionals in a variety of settings, including law firms, government agencies, and corporate legal departments. The program emphasizes a strong foundation in legal theory, ethics, and procedural law, while also providing students with hands-on experience in legal research, document drafting, case management, and client interactions. This program prepares graduates to perform essential paralegal tasks such as conducting legal research, preparing legal documents, and assisting attorneys in case preparation and trial proceedings. Through a combination of coursework and real-world experiences, students will develop critical thinking and problem-solving skills, effective communication, and a thorough understanding of the legal system. Upon completion of the program, students will be well-prepared to enter the workforce as competent paralegals or legal assistants, or to continue their studies in law or related fields.

Statewide Industry Highlights

- Current Workforce: 9,260
- Average Salary: $55,200
- Open Positions: 1,140

Data provided by Lightcast, 2024

Code	Title	Hours
Level II Certificate, Paralegal Studies		
LGLA 1303	Legal Research	3
LGLA 1305	Legal Writing	3
LGLA 1311	Introduction to Law	3
LGLA 1313	Introduction to Paralegal Studies	3
LGLA 1317	Law Office Technology	3
LGLA 1345	Civil Litigation	3
LGLA 1355	Family Law	3
LGLA 2305	Interviewing & Investigating	3
LGLA 2307	Law Office Management [1]	3
or LGLA 1380	Cooperative Education - Legal Assistant/Paralegal	
LGLA 2313: Criminal Law and Procedure		3
Total Hours		**30**

Note: The Level II certificate program stacks into the AAS curriculum.

[1] Choose one of the courses listed.

Code	Title	Hours
AAS, Paralegal Studies		
COMS 2386	Interpersonal Communication [1]	3
ENGL 1301	Composition I [2]	3
MATH 1332	College Mathematics [3]	3
or MATH 1324	Mathematics for Managerial Decision Making	
PHIL 1301	Introduction to Philosophy [4]	3
POLS 2306	Texas Government [5]	3
LGLA 1303	Legal Research	3
LGLA 1305	Legal Writing	3
LGLA 1311	Introduction to Law	3
LGLA 1313	Introduction to Paralegal Studies	3
LGLA 1317	Law Office Technology	3
LGLA 1345	Civil Litigation	3
LGLA 1350: Contracts		3
LGLA 1355	Family Law	3

LGLA 2305	Interviewing & Investigating	3
LGLA 2307	Law Office Management [6]	3
or LGLA 1380	Cooperative Education - Legal Assistant/Paralegal	
LGLA 2313: Criminal Law and Procedure		3
LGLA 2337	Mediation	3
LGLA 2339	Certified Paralegal Exam Review [7]	3
or LGLA 2381	Cooperative Ed II- Paralegal Assistant	
LGLA 2341: Evidence		3
LGLA 2352: Advanced Civil Litigation		3
Total Hours		**60**

1 COMS 2386 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
2 ENGL 1301 satisfies the Core Curriculum requirement for Component Area I (Communications).
3 MATH 1332 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
4 PHIL 1301 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
5 POLS 2306 satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
6 Choose one of the courses listed.
7 Choose one of the courses listed.

Additional information: Reference the SHSU Polytechnic College (https://sam.edu/) page for additional information.

Level II Certificate, Paralegal Studies

First Year

Fall	Hours	Spring	Hours
Term 1		Term 4	
LGLA 1305		3 LGLA 1355	3
LGLA 1311		3 LGLA 2305	3
Term 2		Term 5	
LGLA 1313		3 LGLA 2307 or 1380[1]	3
LGLA 1317		3 LGLA 2313: Criminal Law and Procedure	3
Term 3			
LGLA 1303		3	
LGLA 1345		3	
		18	**12**

Total Hours: 30

Note: This Level II certificate program stacks into the AAS curriculum. Must be TSI compliant to receive the Level II certificate. All courses are scheduled for 5-weeks in length.

1 Choose one of the courses listed.

AAS, Paralegal Studies

First Year

Fall	Hours	Spring	Hours	Summer	Hours
Term 1		Term 4		Term 7	
LGLA 1305		3 LGLA 1355		3 MATH 1332 or 1324[2]	3
LGLA 1311		3 LGLA 2305		3 POLS 2306[3]	3
Term 2		Term 5		Term 8	
LGLA 1313		3 LGLA 2307 or 1380[1]		3 ENGL 1301[4]	3
LGLA 1317		3 LGLA 2313: Criminal Law and Procedure		3 COMS 2386[5]	3
Term 3		Term 6			
LGLA 1303		3 LGLA 1351		3	

LGLA 1345		3 LGLA 2341: Evidence	3	
	18		**18**	**12**

Second Year

Fall	**Hours**
Term 9	
LGLA 2335	3
LGLA 2337	3
Term 10	
PHIL 1301[6]	3
LGLA 2339 or 2381[7]	3
	12

Total Hours: 60

Note: All courses are scheduled for 5-weeks in length.

1 Choose one of the courses listed.
2 MATH 1332 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
3 POLS 2306 satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
4 ENGL 1301 satisfies the Core Curriculum requirement for Component Area I (Communications).
5 COMS 2386 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 PHIL 1301 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
7 Choose one of the courses listed.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Level II Certificate and AAS Program in Paralegal Studies is designed to provide graduates with the following marketable skills:

- Use legal terminology to create documents and presentations, and to compose correspondence and legal documents.
- Search and analyze law literature from primary and secondary sources.
- Use common law office technology such as databases and electronic filing systems.
- Assist with client and witness interviews and legal investigations.
- Understand the ethical obligations of the profession and possess the ability to communicate effectively and professionally in oral and written communication.

Level I Certificate, Practical AI and Intelligent Automation

Additional information: Reference the SHSU Polytechnic College (https://sam.edu/) page for additional information.

Program Description

Jumpstart your career with in-demand AI and automation skills. This program is crafted for those looking to quickly gain the practical knowledge needed for high-impact roles such as AI Technician or Automation Specialist.

As AI and automation become essential across industries, this certificate equips you with versatile, future-focused skills that open doors in the fast-evolving tech landscape. Stand out in today's job market as a forward-thinking professional ready to shape the future.

Statewide Industry Highlights

- Current Workforce: 88,072 employed
- Average Salary: $56,400
- Open Positions: 9,148

Data provided by Lightcast, 2024.

Code	Title	Hours
Level I Certificate, Practical AI and Intelligent Automation		
ITAI 1370	AI Fundamentals & Platforms	3
ITAI 1371	AI Ethics and Society	3
ITAI 1372	AI in Industry	3
ITAI 1373	Data Analysis & Visualization	3
ITAI 1374	Automating Workflows	3
ITAI 1375	AI-Powered Data Insights	3
ITAI 2370	AI for Customer Service	3
ITAI 2371	Natural Language Processing	3
ITAI 2372	Image and Text Analysis	3
ITAI 2373	Predictive Analytics	3
ITAI 2374	Automating Customer Insights	3
ITAI 2375	Capstone Project	3
Total Hours		**36**

Additional information: Reference the SHSU Polytechnic College (https://sam.edu/) page for additional information.

Level I Certificate, Practical AI and Intelligent Automation

First Year			
Fall	**Hours**	**Spring**	**Hours**
Term 1		Term 3	
ITAI 1370	3	ITAI 2370	3
ITAI 1371	3	ITAI 2371	3
ITAI 1372	3	ITAI 2372	3
Term 2		Term 4	
ITAI 1373	3	ITAI 2373	3
ITAI 1374	3	ITAI 2374	3
ITAI 1375	3	ITAI 2375	3
	18		**18**

Total Hours: 36

Note: All courses are scheduled for 7.5 weeks in length.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Level I Certificate Program in Practical AI and Intelligent Automation is designed to provide graduates with the following marketable skills:

- Machine Learning
- Artificial Intelligence
- Computer Science
- Software Development
- Data Analysis
- Microsoft Azure
- Automation
- Business Intelligence

UNDERGRADUATE CATALOG

Accreditations (p. 69)
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If you have a question but do not know to whom an inquiry should be directed, you may call the University Information number, and the inquiry will be routed to the appropriate person or department.

University Information: (936) 294-1111
Toll Free: 1-866-BEARKAT (1-866-232-7528)

The purpose of the catalog is to provide general information about the academic programs of Sam Houston State University to prospective students, current students, faculty, and staff of the University. Included is information concerning the academic calendar, admission and registration procedures, tuition and fees, degree requirements, services available to students, and the faculty and administrative officers of the University.

Subject to Change Notice

The policies, regulations, procedures, and fees in this catalog are subject to change without notice, if necessary, to keep University policies in compliance with State and Federal laws and/or with rules and regulations of the Board of Regents of The Texas State University System.

The University reserves the right to change curricula, rules, fees, and other requirements, of whatever kind, affecting students. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, or faculty member and Sam Houston State University or its Board of Regents.

Course Prefixes and Abbreviations (p. 1145) provides a list of course abbreviations (e.g., AGRI represents Agriculture) used throughout this catalog and in many SHSU operations and publications (e.g., transcripts, registration, etc.).

Texas Common Course Numbers (p.) are of great value for transfer students and SHSU students who take an occasional class at a Texas community college.

Report a Problem (catalogs@shsu.edu) - If you notice a problem with the catalog, such as a broken link or a typographical error, please report the problem via email to the catalog editor in the Office of Academic Planning and Assessment. Be specific and include the exact address of the page if possible.

Accreditations

Sam Houston State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, and doctoral degrees. Sam Houston State University also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Sam Houston State University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website www.sacscoc.org (https://www.sacscoc.org).

College of Arts and Media

The Department of Art's degree programs are accredited by the National Association of Schools of Art and Design (NASAD).

The Department of Dance's degree programs are accredited by the National Association of Schools of Dance (NASD).

The School of Music's undergraduate and graduate degree programs are accredited by the National Association of Schools of Music (NASM).

The Department of Theatre and Musical Theatre's programs are accredited by the National Association of Schools of Theatre (NAST).

College of Business Administration

The College of Business Administration's undergraduate and graduate degree programs are accredited by AACSB International, The Association to Advance Collegiate Schools of Business.

College of Criminal Justice

The Master of Science in Forensic Science is accredited by the Forensic Science Education Programs Accreditation Commission (FEPAC).

College of Education

The College of Education's Educator Preparation Program is accredited by the Council for the Accreditation of Educator Preparation (CAEP). As one of only thirteen universities in Texas with CAEP accreditation, the educator preparation program stands out among the top programs in the nation. The college's educator preparation certification programs are also accredited by the Texas Education Agency.

Many of the college's undergraduate programs are recognized by Specialized Professional Accreditors (SPA), which indicates that the program has taken the extra steps necessary to meet rigorous standards set for the program's specific educational field. The following teacher preparation programs have been nationally recognized by their respective SPA: Elementary Education EC-6 (Association for Childhood Education International); Middle School Education 4-8 (Association for Middle Level Education); Biology 8-12 (National Science Teachers Association); Kinesiology EC-12 (National Association of Sport and Physical Education); Mathematics 8-12 (National Council of Teachers of Mathematics); and Special Education (Council for Exceptional Children).

Many of the college's graduate programs are also recognized by their respective Specialized Professional Accreditors. The following professional educator preparation programs have been nationally recognized by their respective SPA: Library Science (American Association for School Librarians); Educational Diagnostician (Council for Exceptional Children); Principal (Educational Leadership Constituents Council); Superintendent (Educational Leadership Constituents Council); Reading Educator (International Literacy Association); and Instructional Technology (International Society for Technology in Education).

The Clinical Mental Health Counseling, M.A.; School Counseling, M.Ed.; and Counselor Education, Ph.D have been accredited by the Council of Accreditation of Counseling and Related Educational Programs (CACREP).

College of Health Sciences

The Didactic Program in Dietetics (DPD) at the undergraduate level and the Dietetic Internship (DI) Program at the graduate level in the Department of Family and Consumer Sciences are currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995. (312) 899-0040, ext. 5400. Website (https://www.eatright.org/).

The Interior Design Program in the Department of Family and Consumer Sciences is granted accreditation by the Council for Interior Design Accreditation (CIDA) and by the National Association of Schools of Art and Design (NASAD).

The baccalaureate degree program in nursing at Sam Houston State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

The BS in Kinesiology-all-levels Teacher Certification Program-The Physical Education Teacher Education Program was awarded "National Recognition" status by the Society of Health and Physical Educators America (SHAPE America) through the Council for the Accreditation of Educator Preparation (CAEP).

The Master of Science in Athletic Training program accredited by the Commission on Accreditation of Athletic Training Education (CAATE), 2001 K Street NW, 3rd Floor North, Washington DC 20006.

College of Humanities and Social Sciences

The Doctoral Program degree in Clinical Psychology is accredited by the American Psychological Association (APA).

The Specialists degree in School Psychology is approved by the National Association of School Psychologists to ensure high quality school psychology training and services. Any individual interested in reviewing the official document listing the accreditation, approval or licensing of Sam Houston State University, will have access to such material in the Reference Department of the Newton Gresham Library.

College of Osteopathic Medicine

SHSU-COM has been awarded Accreditation with Exceptional Outcomes by the Commission on Osteopathic College Accreditation (COCA). For more information on COCA accreditation or to file a complaint with the accrediting body, please visit Commission on Osteopathic College Accreditation (https://osteopathic.org/accreditation/).

College of Science and Engineering Technology

The American Chemical Society recognizes the Department of Chemistry as having adequate faculty, facilities, library, curriculum, and research for training professional chemists.

The Computing Science Program is accredited by the Computing Accreditation Commission of ABET, https://www.abet.org, under the commission's General Criteria and Program Criteria for Computer Science and Similarly Named Computing Programs.

Sam Houston State University's Bachelor of Science degree in Construction Management has been accredited by the Applied and Natural Science Accreditation Commission of ABET, the global accreditor of college and university programs in applied and natural science, computing, engineering, and engineering technology.

Administrative Officers

Central Administrative Officers

Name	Title
Alisa White, Ph.D.	President
Sumanth Yenduri, Ph.D.	Provost and Senior Vice President for Academic Affairs
Ms. Amanda Withers	Chief Financial Officer & Senior Vice President for Operations
Dannie Moore, Ed.D.	Vice President for Student Affairs
Mr. Matthew Bethea	Vice President for University Advancement
Heather V. Thielemann, Ed.D.	Senior Vice President for Strategic Enrollment & Innovation
Major General (ret.) Dave Glaser	Chief Strategy Officer
Mr. Jeff Harris	Chief Marketing Officer
Mr. Bobby Williams	Director of Athletics
McCartney Johnson, Ed.D.	Deputy to the President

Academic Administrative Officers

Name	Title
Anne Gaillard, Ph.D.	Vice Provost for Academic Affairs
Jason Vest, DMA	Dean, College of Arts and Media
Shar Self, Ph.D.	Dean, College of Business Administration
Phillip M. Lyons, Ph.D.	Dean, College of Criminal Justice
Stacey L. Edmonson, Ed.D.	Dean, College of Education
Ryan Zapalac, Ph.D.	Dean, College of Health Sciences
Chien-pin Li, Ph.D.	Dean, College of Humanities and Social Sciences
Thomas J. Mohr, MS, DO, FACOI, FAOGME	Dean, College of Osteopathic Medicine
Melinda Holt, Ph.D.	Dean, College of Science and Engineering Technology

The Texas State University System

Name	Location
Alan L. Tinsley (Chairman)	Madisonville
Stephen Lee (Vice Chairman)	Beaumont
Dionicio (Don) Flores (Vice Chairman)	El Paso
Charlie Amato	San Antonio
Duke Austin	Houston
Sheila Faske	Rose City
Russell Gordy	Houston
Tom Long	Frisco
William F. Scott	Nederland
Olivia Discon (Student Regent)	Huntsville

Institutional Mission Statement

Mission Statement

Sam Houston State University is a student-centered, community engaged institution whose mission is to offer accessible, quality higher education. The university offers a variety of innovative and flexible degree programs at the undergraduate, graduate, and professional levels focused on career readiness, personal and professional development, and service. SHSU provides integrated academic and student success services designed to support traditional and non-traditional students from diverse backgrounds.

Values

- Student Success and Support
- Academic Excellence
- Service and Community Engagement
- Inclusive Excellence
- Collaborative Environment
- Honor
- Creativity and Innovation

Vision Statement

Sam Houston State University will provide a transformative environment that enables students from diverse backgrounds to become leaders who serve their families, communities, and professions. We aspire to make SHSU both the best value in higher education and the top regional public university in the state of Texas. We will accomplish this through providing high quality, innovative, and flexible academic programs; a commitment to student success, scholarship and creative works; and engagement that solves the most critical challenges facing the world.

Strategic Priorities

- Prioritize student success and student access.
- Embody a culture of excellence.
- Elevate the reputation and visibility of SHSU.
- Expand and elevate our service to the state and beyond.

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Admission

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Any person who desires to apply for undergraduate admission to the University may do so by accessing the Office of Admissions website (https://www.shsu.edu/admissions/). Please direct questions regarding the application process to the Office of Admissions by phone (936) 294-1828 or e-mail Admissions (admissions@shsu.edu).

Sam Houston State University accepts applications for undergraduate admission from students of accredited secondary schools and students transferring from accredited colleges without regard to race, color, national origin, religion, gender, disability, or age.

Application Fee

A nonrefundable application fee should be paid by credit card, money order, check, or cash. Checks or money orders must be payable to Sam Houston State University.

Application Deadlines

Application deadlines for undergraduate admission to Sam Houston State University are available on the Admissions website (https://www.shsu.edu/apply/).

Personal Standards

Sam Houston State University requires the same personal standards and applies the same criteria in considering applications for admission as it uses in the retention of students who are enrolled. To be consistent with this policy, the University reserves the right to refuse acceptance to prospective or former students who have criminal records, including conviction of a felony, offenses involving moral turpitude or other serious offenses. The personal standards of conduct expected of students who enroll at Sam Houston State University are provided in the Student Guidelines. *(*https://www.shsu.edu/dept/dean-of-students/guidelines/student-guidelines/*)*

Academic Fresh Start

Undergraduate applicants may elect the University's Academic Fresh Start Program to have all academic coursework completed at Sam Houston State University or elsewhere ten or more years prior to the semester of enrollment removed from consideration by the University for any academic purpose including, but not limited to, cumulative grade point average, academic classification, academic standing, course prerequisites, degree requirements, eligibility for graduation, and honors standing.

Undergraduate applicants who are Texas Residents electing to invoke this policy may **not** choose which credit hours are to be counted or to be ignored. **All** academic course credits or grades earned by the applicant 10 or more years prior to the starting date of the semester in which the applicant seeks to enroll will be ignored if the applicant makes use of this policy. Approval from Admissions, Financial Aid and Registrars Office will be required. For more information, contact the Office of Admissions, (936) 294-1828.

Admission Standards for Undergraduate Students

- Beginning Freshmen (p. 75)
- Graduates of a Non-accredited High School, Home Schooled Students, and Students Who Earned the GED (p. 76)
- Transfer Students (p. 76)
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Sam Houston State University accepts applications for undergraduate admission from students of accredited secondary schools and students transferring from accredited colleges without regard to race, color, national origin, religion, sex, disability, or age.

Beginning Freshmen

A beginning freshman student must submit all of the following documentation:

- Completed SHSU Admission Application with non-refundable application fee.
- Official ACT Composite or SAT score report. (Optional)
- Official high school transcript showing GPA and degree plan. Upon graduation from high school, applicant must provide a final official high school transcript with final GPA, date of graduation, and graduation plan.

Automatic Admission is granted when eligible prospective freshmen meet **ONE** of the following criteria:

1. Top 10% of their high school graduating class in one of the two school years preceding the academic year for which they are applying for admission, with one of the following diploma types:
   - (HB5) Distinguished Achievement
   - (UAS) Distinguished
2. Unweighted GPA of 3.0 or higher, with or without test scores.
3. Meets the one of the following GPA/test score combinations:
   - GPA: 2.5–2.99 with a 22 ACT or 1110 SAT
   - GPA: 2.25–2.49 with a 25 ACT or 1210 SAT
4. Dual credit with a GPA of 2.5 or higher and at least 12 transferable college credit hours.

Eligible prospective freshmen must graduate high school with one of the following diploma types to be granted automatic admission:

- (HB5) Foundations with Endorsement(s)
- (HB5) Distinguished Achievement
- (UAS) Recommended
- (UAS) Distinguished
- Or equivalent

If a student does not meet any of the criteria above, applications will receive holistic review (p. 81). Holistic review decisions are final.

Students automatically admitted into SHSU still need to submit test scores to be considered for certain scholarships.

Various school districts may enter into a Distinguished High School Partnership (DHSP) with SHSU. Students attending a high school associated with a DHSP will be admitted under the standards agreed to within the memorandum of understanding (MOU).

The requirements summarized in the above table are for Texas high school students on the Recommended (UAS), Distinguished (UAS), Foundations with Endorsement(s) (HB5)*, or Distinguished Achievement (HB5) plans. Applicants from private schools or home schools must have an equivalent diploma type, and home school transcripts must be notarized. Graduates of a non-accredited high school (p. 76) and students who earned the GED must meet the requirements listed in the SHSU Undergraduate Catalog.

SHSU accepts college credit earned as dual credit from other institutions of higher education. A beginning freshman student who has attempted college/university coursework while enrolled in high school or prior to entering Sam Houston State University (Dual Credit/Dual Enrollment) must provide official college transcript(s) indicating the completion of all transferable academic hours (excluding developmental, remedial, vocational/technical, continuing education, or lifelong learning courses). While the overall cumulative transfer grade point average (for Dual Credit courses) will

not be used for admittance, the GPA will factor into the overall GPA. It should be noted that transferable courses may not be relevant to every degree plan. Regular advising at the community college/university and review of SHSU four-year degree plans in this catalog is highly recommended.

Upon admission, Freshman Orientation is required. Visit Orientation (http://www.shsu.edu/orientation/) for details.

Graduates of a Non-Accredited High School, Home Schooled Students, and Students Who Earned the GED

Graduates of a non-accredited high school, home-schooled students, and students who earned the GED must submit the following documentation:

- Completed SHSU Admission Application with non-refundable application fee.
- Official ACT Composite or SAT score report. (Optional for graduates of non-accredited high school and home schooled students)
- Official high school transcript showing GPA or official GED certificate with GED scores. If the student is home schooled, a notarized copy of the transcript must be provided. Upon graduation, applicants must provide a final official transcript showing final GPA and date of graduation.

Sam Houston State University will admit a student who has obtained a GED based on the following criteria:

- Score of at least 21 on the ACT Composite or 1090 on the SAT (evidence based reading/writing + math).
- Present an official copy of the GED certificate with GED scores in lieu of a transcript.

Home schooled students and students who graduated from a non-accredited high school must meet the same admissions requirements as referenced in the Beginning Freshmen (p. 75) section above.

Upon admission, Freshmen Orientation is required. See Orientation (http://www.shsu.edu/orientation/) for details.

Transfer Students

A transfer student is defined as an undergraduate student who has completed a minimum of 12 hours of transferable academic coursework from a college and/or university accredited by an agency recognized by the Texas Higher Education Coordinating Board after high school graduation. Transferable academic coursework is defined as those attempted hours of coursework which are applicable to a baccalaureate degree program.

Transfer Students from U.S. Colleges or Universities

Undergraduate students who transfer to Sam Houston State University from a college or university of recognized standing must provide all of the following documentation:

- Completed SHSU Admission Application with non-refundable application fee.
- Official transcript(s) from all colleges and universities attended.

Transfer Student Requirements:

12-17 hours must have a cumulative grade point average of 2.5 or higher on transferable hours.
18+ hours must have a cumulative grade point average of 2.0 or higher on transferable hours.

Undergraduate students who transfer from a college or university accredited by an agency recognized by the Texas Higher Education Coordinating Board **with less than 12 transferable hours** must meet the standards of beginning freshmen (p. 75) students as well as have a cumulative grade point average of a 2.5 or higher on transferable hours.

Students who are currently suspended, dismissed or expelled from another college or university are not eligible for admission to Sam Houston State University.

Transfer of Credit

Sam Houston State University accepts a maximum of 66 semester credit hours plus 4 hours of activity-based physical education (kinesiology) for a total of 70 semester credit hours from the accredited community colleges attended. Please visit Texas Common Course Numbers for information about Texas Common Course Numbers and equivalent SHSU courses.

Courses and grades transferred from other colleges and/or universities accredited by an agency recognized by the Texas Higher Education Coordinating Board are recorded as received on the student's academic record at Sam Houston State University and will be reviewed for transferability; however, transferable courses may not be relevant to every degree plan **and** not all transfer course work will satisfy degree requirements. The applicant is encouraged to speak to an academic advisor familiar with the programs and degree plans of all institutions involved to maximize the amount of transferable credit. For more information, see the section on **Transfer of Credit**.

Returning SHSU Students

All former SHSU students who did not attend the University within the last year must submit all of the following:

- SHSU Admission Application for undergraduate admission (readmit) with the non-refundable application fee.
- Official transcript(s) from all institutions attended since last attending SHSU.

All students applying for readmission into the university must present a minimum, combined grade point average of 2.0 or higher on all transferable hours.

Transient (Visiting) Students

Students enrolled at another institution of higher education (home institution) wishing to attend Sam Houston State University for one semester with the intention of transferring credits to their home institution, must meet the following requirements:

- Be regularly enrolled in a degree-seeking program at their home institution and eligible to re-enroll.
- Provide official transcript from home institution.
- Complete the Transient Application on Apply Texas (https://www.shsu.edu/admissions/apply-texas.html).
- Pay the non-refundable application fee.

Students admitted under this option are considered non-degree seeking and are not eligible for financial aid. Credit and grade points earned as a transient student will not be used toward admission to Sam Houston State University at a future date.

Early College Credit Students

High school students have two opportunities to earn college credit from SHSU prior to high school graduation. Through early admissions, students will take SHSU college course(s) and earn college credit. Through dual credit, students will take SHSU college course(s) and earn both high school credit and college credit. A memorandum of understanding (MOU) must exist between the high school and SHSU for students to be eligible for Dual Credit admissions. Students admitted under these options are considered non-degree seeking and are not eligible for financial aid. They are also not subject to TSI requirements while in this status. Upon graduation from high school, the student must submit a new undergraduate application to continue taking classes as a degree seeking student at Sam Houston State University. Once officially admitted as a degree-seeking student, a valid TSI status will be required in accordance with state guidelines.

SHSU also accepts college credit earned as dual credit from other institutions of higher education.

Early Admissions

High school students who have completed the junior year may be accepted to attend classes at Sam Houston State University. To be accepted to attend classes, the students must provide official documentation for the criteria listed below, complete the SHSU Admission Application, and pay the non-refundable application fee. To qualify for the Early Admissions Program, a high school student must meet the following criteria:

- Be in the top 25% of the graduating class
- Submit the completed Early College Credit Admission form which includes:
  - Written permission of the parent or guardian
  - Recommendation of the high school principal or counselor

Dual Credit

To participate as a dual credit student with SHSU, a memorandum of understanding (MOU) must exist between the high school and SHSU. Students must complete the SHSU Admission Application, pay the non-refundable application fee, and provide official documentation for the criteria listed below:

- Submit the completed Early College Credit Admission form which includes:
  - Written permission of the parent or guardian
  - Recommendation of the high school principal or counselor

International Students

All undergraduate international students must submit the Apply Texas Application (International) and pay the non-refundable application fee in U.S. currency. All undergraduate international students must declare a major (other than Integrated Studies) on the application for admission.

Sam Houston State University has five categories of undergraduate international students:

- beginning international freshmen who have graduated from a high school outside the United States in a country whose primary mode of instruction is not English (p. 78),
- beginning international freshmen who have graduated from a high school in the U.S. (p. 78),
- transfer international students who have attended a college or university from outside the U.S. (p. 79),

- transfer international students who have attended a college or university in the U.S. and have obtained less than 30 transferable hours (p. 79), and
- transfer international students who have attended a college or university in the U.S. and have obtained at least 30 transferable hours (p. 80).

International students who are beginning freshmen graduating from a high school outside the U.S. in a country whose primary mode of instruction is not English must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application (International) with non-refundable application fee (must declare a major other than Integrated Studies).
- If English is not the applicant's first language and the high school is not on the list of official English language nations (https://www.shsu.edu/admissions/international/documents/Official%20English%20Language%20Nations.pdf), an official TOEFL score of at least 69 (iBT or iBT Special Home Edition), IELTS score of at least 6.0, Duolingo EPT score of at least 100, ACT verbal score of at least 27, SAT verbal score of at least 600, IB curriculum English SL score of at least 4, English-O Level grade of at least C in the Cambridge Curriculum, CXC, CCSLC, CSEC, or CAPE English exam score of at least IV, official transcript showing a minimum grade of C in English Composition I from a regionally-accredited university, or successful completion of an intensive English program recognized by SHSU or TIEC. Test score waivers are considered for those who completed high school where English was the language of instruction. The language of instruction is determined by reviewing a submitted high school transcript for official confirmation of the language of instruction. Upon receipt of this transcript, the Office of Admissions will determine waiver eligibility.
- Official high school transcript for evaluation by a certified SHSU official OR official evaluation of high school transcript from a NACES accredited evaluation company.
- Certified English translations for documents submitted in a language other than English.
- Must have a minimum GPA of 2.5.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount of deposit equal to the estimated expense for one year at the University. Visit the Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit the Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Global Engagement Center immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail Global Engagement Center (oip@shsu.edu).
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation (https://www.shsu.edu/dept/global-engagement/international-students-and-scholars/international-orientation.html), in lieu of New Student Orientation. Contact the Global Engagement Center at (936) 294-4607 for information concerning this specialized orientation session.

International students who are beginning freshmen graduating from a high school in the U.S. must provide the following:

Admission Requirements/Documentation

International students who are **beginning freshmen** graduating from a high school **in the U.S**. must meet the same admissions requirements as referenced in the Beginning Freshmen (p. 75) section above.

Students must declare a major other than Integrated Studies.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit the Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit the Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- International Student Adviser's Report. This form is to be completed and signed by the student and an adviser at the U.S. high school.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Global Engagement Center immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.

- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation (https://www.shsu.edu/dept/global-engagement/international-students-and-scholars/international-orientation.html), in lieu of New Student Orientation. Contact the Global Engagement Center at (936) 294-4607 for information concerning this specialized orientation session.

International students who are transfer students who attended a college or university outside the U.S. in a country whose primary mode of instruction is not English must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application (International) with non-refundable application fee (must declare a major other than Integrated Studies).
- If English is not the applicant's first language, an official TOEFL score of at least 69 (iBT or iBT Special Home Edition), IELTS of at least 6.0, Duolingo EPT score of at least 100, ACT verbal score of at least 27, SAT verbal score of at least 600, IB curriculum English SL score of at least 4, English O-Level grade of at least C in the Cambridge Curriculum, CXC, CCSLC, CSEC, or CAPE English exam score of at least IV, official transcript showing a minimum grade of C in English Composition I from a regionally-accredited university, or successful completion of an intensive English program recognized by SHSU or TIEC. Test score waivers are considered for those who completed an undergraduate program or at least 30 hours of college/university coursework where English was the language of instruction. The language of instruction is determined by reviewing submitted transcripts for official confirmation of the language of instruction. Upon receipt of these transcripts, the Office of Admissions will determine waiver eligibility.
- Official transcripts of all colleges and universities attended for evaluation by a certified SHSU official OR official evaluation of all college and university transcripts from a NACES accredited evaluation company.
- Certified English translations for documents submitted in a language other than English.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit the Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Confirmation of dependents. If dependents will accompany the student to the U.S., provide each dependent's full name, date of birth, country of citizenship, and relationship to the student. For each dependent the dollar amount of financial support must be increased by the following amounts: $2,000 for a spouse, $2,000 for the first child, and $1,000 for each additional child. Visit Global Engagement Center (https://www.shsu.edu/dept/international-programs/)for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit the International Students (https://www.shsu.edu/admissions/international/) website for further details.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Global Engagement Center immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation (https://www.shsu.edu/dept/global-engagement/international-students-and-scholars/international-orientation.html), in lieu of New Student Orientation. Contact the Global Engagement Center at (936) 294-4607 for information concerning this specialized orientation session.

International students who are transfer students who attended a college or university in the U.S. and have obtained less than 30 transferable hours must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application (International) with non-refundable application fee (must declare a major other than Integrated Studies).
- If English is not the applicant's first language, an official TOEFL score of at least 69 (iBT or iBT Special Home Edition), IELTS of at least 6.0, Duolingo EPT score of at least 100, ACT verbal score of at least 27, SAT verbal score of at least 600, IB curriculum English SL score of at least 4, English-O Level grade of at least C in the Cambridge Curriculum, CXC, CCSLC, CSEC, or CAPE English exam score of at least IV, official transcript showing a minimum grade of C in English Composition I from a regionally-accredited university, or successful completion of an intensive program recognized by SHSU or TIEC.
- Official transcripts from all colleges/universities attended.
- 12-17 hours must have a cumulative grade point average of 2.5 or higher on transferable hours.
  18+ hours must have a cumulative grade point average of 2.0 or higher on transferable hours.
- Undergraduate students who transfer from a college or university of recognized standing with less than 12 transferable hours must meet the standards of beginning freshmen (p. 75) students as well as have a cumulative grade point average of a 2.5 or higher on transferable hours.

- Students who are currently suspended, dismissed or expelled from another college or university are not eligible for admission to Sam Houston State University.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Confirmation of dependents. If dependents will accompany the student to the U.S., provide each dependent's full name, date of birth, country of citizenship, and relationship to the student. For each dependent the dollar amount of financial support must be increased by the following amounts: $2,000 for a spouse, $2,000 for the first child, and $1,000 for each additional child. Visit Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit the Global Engagement Center (https://www.shsu.edu/dept/international-programs/) or further details.
- International Student Adviser's Report. This form is to be completed and signed by the student and an adviser at the U.S. high school.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Global Engagement Center immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation (https://www.shsu.edu/dept/global-engagement/international-students-and-scholars/international-orientation.html), in lieu of New Student Orientation. Contact the Global Engagement Center at (936) 294-4607 for information concerning this specialized orientation session.

International students who are transfer students that attended a college or university in the U.S. and have obtained at least 30 transferable hours must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application (International) with non-refundable application fee (must declare a major other than Integrated Studies).
- Official transcripts from all colleges/universities attended.
- 12-17 hours must have a cumulative grade point average of 2.5 or higher on transferable hours.
  18+ hours must have a cumulative grade point average of 2.0 or higher on transferable hours.
- Undergraduate students who transfer from a college or university of recognized standing with less than 12 transferable hours must meet the standards of beginning freshmen (p. 75) students (see Beginning Freshmen within this chapter) as well as have a cumulative grade point average of a 2.5 or higher on transferable hours.
- Students who are currently suspended, dismissed or expelled from another college or university are not eligible for admission to Sam Houston State University.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Confirmation of dependents. If dependents will accompany the student to the U.S., provide each dependent's full name, date of birth, country of citizenship, and relationship to the student. For each dependent the dollar amount of financial support must be increased by the following amounts: $2,000 for a spouse, $2,000 for the first child, and $1,000 for each additional child. Visit Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit Global Engagement Center (http://www.shsu.edu/dept/international-programs/) for further details.
- International Student Adviser's Report. This form is to be completed and signed by the student and an adviser at the U.S. high school.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Global Engagement Center immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail Global Engagement Center (oip@shsu.edu).
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation (https://www.shsu.edu/dept/global-engagement/international-students-and-scholars/international-orientation.html), in lieu of New Student Orientation. Contact the Global Engagement Center at (936) 294-4607 for information concerning this specialized orientation session.

Holistic (Individual) Review

Incoming freshman who do not meet automatic admission requirements will be holistically reviewed.

The Admissions staff may consider the following factors in the review process:

- Grade Point Average
- Specific class rank (on a seven-semester transcript)
- Size of graduating class
- Quality and competitive level of high school courses taken and grades earned (i.e. AP, Honors classes, Dual Credit)
- Academic progress and achievements
- Scores on either the ACT and/or the SAT
- Personal Statement

NOTE: After the review process, if a student is granted admission to SHSU under the review program, the student will be required to take and complete the UNIV 1101 course during the first semester.

Appeals for Undergraduate Students

An applicant who has been denied admission may appeal that decision by email to Admissions (admissions@shsu.edu).

Appeals Process

An applicant who has been denied admission may appeal that decision by email to Admissions (admissions@shsu.edu).

Registration

- Registration Requirements (p. 83)
- Academic Advisement for Registration (p. 83)
- Core Mathematics Enrollment (p. 83)
- Texas Success Initiative (TSI) (p. 83)
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- Courses at SHSU - The Woodlands Center (p. 85)
- Name Change (p.)
- Correct Addresses (p. 85)
- Classification of Students (p. 85)
- Auditing a Course (p. 86)
- Transcripts (p. 86)

Registration Requirements

Information concerning registration may be obtained from the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html) provided in this publication, the Student Advising Center (SAM Center) (https://www.shsu.edu/centers/sam-center/), or from the Registrar's Office (https://www.shsu.edu/dept/registrar/students/registration/).

Academic Advisement for Registration

Sam Houston State University offers advisement throughout the year at the Student Advising Center (SAM Center). (https://www.shsu.edu/centers/sam-center/)

Students select a degree and major at the time of application to SHSU and are assigned a catalog year based on their term of acceptance. Students must meet the academic requirements of their selected degree for the assigned catalog year. In addition, a later catalog may be selected, provided the requirements are met no later than six years from the effective date of that catalog. The student is responsible for knowledge of the degree program's requirements, including any special requirements of the major and/or minor department. Students must speak to their advisor in order to make a change to their major. Academic department approval is required for all change of majors.

Some students must receive mandatory advisement prior to registering for courses. Check with the SAM Center (http://www.shsu.edu/centers/sam-center/do-i-need-advising/) to determine if advisement is required.

Core Mathematics Enrollment

Best practices in higher education indicate that students perform better at challenging subjects when they are immersed in learning the material with minimal interruption. To ensure students are more successful in the general education mathematics courses and remain on track to graduate in four years, SHSU encourages students to complete their mathematics requirements in Component Area II of the Core Curriculum within their first two semesters.

TSI Request Form and Exemptions (p. 83)

Submitting TSIA2 (TSI Assessment Version 2) Scores

If you have previous TSIA2 scores, you must submit the TSI Score Request Form (https://forms.office.com/pages/responsepage.aspx?id=2MtTsZKzREebOePNuGd_AMlPLqt7h_VGupw-K3xe9gpUN01WMjQwNlZWTDBEM08wN0UwNUZQQ1RKMS4u&route=shorturl) to provide SHSU with written permission to download and access your TSIA2 results.

- The Registrar's Office may be unable to locate your TSIA2 scores if the details you provide on the form do not match the information you provided to the testing center where you completed the TSIA2.
- Please allow up to two business days for your TSIA2 scores to be updated within your SHSU student record.

Exemptions

You may already be exempt (https://www.shsu.edu/dept/registrar/texas-success-initiative/exempt.html) from taking the TSI Assessment based on your standardized testing scores or other criteria.

TSI Requirements (p. 83)

Taking the TSIA2 Exam

If you are not exempt, you must complete three steps in order to meet TSI requirements:

- Step 1: Take the Pre-Assessment Activity (https://www.shsu.edu/dept/registrar/texas-success-initiative/testing.html).
- Step 2: Send the Pre-Assessment Activity certificate of completion to TSI@shsu.edu.
- Step 3: Take the TSI Assessment on-campus at the SHSU Testing Center (https://www.shsu.edu/centers/testing-center/) or remotely by using the Remote Test Application (https://secure.touchnet.com/C21329_ustores/web/store_main.jsp?STOREID=160).

TSI Placement

Students may be College Ready or Not College Ready based on TSIA2 scores.

If you DO NOT receive a College Ready classification score from the TSIA2, you must follow the developmental education policy (https://www.shsu.edu/dept/registrar/texas-success-initiative/policies.html) that requires registration into a developmental support course(s).

Not College Ready students must follow required course placements (https://www.shsu.edu/dept/registrar/texas-success-initiative/placement.html) and meet with their Academic Advisor (https://www.shsu.edu/centers/sam-center/) to confirm course selection. Students must enroll and participate in at least one developmental education course each semester until they satisfy all TSI requirements.

Developmental Education Policies (https://www.shsu.edu/dept/registrar/texas-success-initiative/policies.html)

Retesting - Things You Need to Know! (https://www.shsu.edu/dept/registrar/texas-success-initiative/retesting.html)

Additional Resources (https://www.shsu.edu/dept/registrar/texas-success-initiative/resources.html)

Visit the TSI Success Initiative (TSI) (https://www.shsu.edu/dept/registrar/texas-success-initiative/) website for additional information

Registration

Once accepted and advised at SHSU, students may register for classes during the scheduled registration periods (https://www.shsu.edu/dept/registrar/calendars/advance-registration.html). See the Registrar's website (https://www.shsu.edu/dept/registrar/students/registration/how-to.html) for instructions regarding registration.

Online courses incur an additional fee per credit hour. See the Additional Fees section on the Cashier's site (https://www.shsu.edu/dept/cashiers/resident-traditional-tuition-fees/).

To register for a mini-semester, an overall SHSU GPA of 2.50 is required.

Maximum registration hours allowed per term:

- UG – 19 hours (fall/spring term) and 14 hours (summer term)
- GR – 12 hours (fall/spring/summer terms)

Some students may have a minimum hour requirement (i.e. international students and student-athletes)

Class Schedule Changes

What should students consider when adding or dropping courses?

- Adding or dropping courses can impact financial aid. Students receiving financial aid and/or scholarships are encouraged to visit with a financial aid representative prior to adding or dropping courses.
- Adding or dropping courses can impact time to completion. Students should meet with their academic advisor (https://www.shsu.edu/centers/sam-center/) to discuss potential impacts.
- Beginning with the first class day of each term, added courses will result in tuition and fee charges that must be paid by 4:00 p.m. on the date the course(s) are added.
- An undergraduate student is allowed no more than 6 Q-drops during their combined career at all Texas public colleges and universities.
- A student, under specific conditions, may be charged a higher tuition rate for excessive undergraduate hours. Please reference Tuition for Excessive Undergraduate Hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) from the Registrar's website.
- International students must make changes through the Global Engagement Center (https://www.shsu.edu/dept/global-engagement/).

When can students change their schedules?

For registration times, please refer to Registration Dates (https://www.shsu.edu/dept/registrar/students/registration/registration-open-close-dates.html) and the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).

Resignations

A resignation is a withdrawal from all courses and becomes effective on the date it is received by the Registrar's Office. This is the date that is used for determining any refund. The student is responsible for clearing all debts owed to the university before any potential refund is issued.

A resignation will not be allowed if a grade has been earned or a final has been taken.

Students who fail to officially resign from the university will receive an "F" grade for each course in which they are enrolled. If you are enrolled in only one class and are requesting to drop the class, a resignation is required. See Academic Policy 990407 Student Resignations (https://www.shsu.edu/dept/academic-affairs/documents/aps/990407%20Student%20Resignations.pdf) for more information.

If you receive financial aid and resign, you may be responsible for the repayment of certain types of financial aid received. See the Return of Title IV Funds Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/TIVReturn.pdf) for more information. Also, review the Satisfactory Academic Progress Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf) to better understand how resigning could impact your future aid eligibility.

NOTE:

- A resignation will withdraw a student from all registered courses in the entire term. A student cannot resign from a part of term if another part of term has been completed and a grade has been earned. Ex. If a student completes Summer I and is registered for Summer II, they will not be able to resign from Summer II.
- If this is your first semester attending SHSU and you are resigning before the Census Day (12th Class day for Fall or Spring | 4th Class day for Summer I & II), a new admissions application and non-refundable application fee are required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or Admissions. (admissions@shsu.edu)
- If a year or more has passed from the term of resignation, a new admissions application will be required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or Admissions (admissions@shsu.edu).
- Students who resign after the twelfth class day of a fall/spring term receive a mark of W (withdrawn) for each course they were enrolled in.
- If a student has received a grade in any course for that term, he/she is ineligible to resign.
- International students must be advised by the International Student Advisor before resigning.

Students considering resigning in the current term should review the Resignation Information page (https://www.shsu.edu/dept/registrar/students/registration/resignation-information.html) and the Resignation Refund Schedule (https://www.shsu.edu/dept/registrar/students/registration/drop-resignations-and-refund-policies.html).

Courses at SH - The Woodlands Center

Courses completed at this location will incur an additional fee and carry residency credit. See SH - The Woodlands Center (https://www.shsu.edu/academics/woodlands-center/) (http://www.shsu.edu/academics/woodlands-center/)website for more information.

Name Change

Appropriate documentation substantiating a legal name change for a student must be submitted to the Registrar's Office. All transcripts are issued under the student's legal name as recorded on the student's academic record. The Request for Change of Name form can be found on the Registrar's website (https://www.shsu.edu/dept/registrar/forms-and-documents/forms-and-documents.html#faculty) under Student Resources – Forms and Documents.

Correct Addresses

It is necessary to have a correct residency address on file with the university. Students who change addresses after completing registration should immediately update their addresses by logging in to MySam. (Campus Resources -> Banner Self-Service-> Personal Information -> Update Addresses and Phones)

Official university email correspondence will be sent to the assigned SHSU email address. The university assumes no obligation for the failure of a student to receive communications.

International students must contact the Global Engagement Center. (https://www.shsu.edu/dept/global-engagement/)

Classification of Students

- Freshman: 1-29 hours completed
- Sophomore: 30-59 hours completed
- Junior: 60-89 hours completed
- Senior: 90 hours or more completed

College credit hours earned at Sam Houston State University (SHSU) and hours accepted in transfer from other institutions will count toward the student's classification.

Credit awarded by examination and hours earned with the grade of Credit (CR) are counted in determining classification but are not included in determining the grade point average (GPA).

Hours earned in developmental courses are not counted toward the student's classification.

Auditing a Course

A student auditing a course may attend lectures and other class meetings, take part in class discussions, and receive written confirmation of attendance. The student will not receive evaluations of participation and will not be allowed to submit assignments or take examinations and tests, except with special and expressed permission of the instructor.

An individual must receive prior approval from the appropriate department chair or the instructor involved in order to audit a course. Neither the instructor nor the university assumes responsibility for the academic progress of any person auditing a course. The audit fee for each course is $50; students 65 years of age or older may be exempt from paying the audit fee with an approved Senior Citizen waiver (https://www.shsu.edu/dept/registrar/forms-and-documents/forms-and-documents.html). Faculty-led study abroad courses may not be audited.

Instructions and a copy of the Audit Form can be found on the Registrar's Website (https://www.shsu.edu/dept/registrar/students/registration/audit.html). Audit Forms are accepted on the 2nd-12th class days during full fall, spring, and summer terms and the 2nd class day for all other parts of term. A request to audit a course will not be accepted if there are no seats available in the course at the time the form is processed by the Registrar's Office.

An individual auditing a course:

- Is encouraged to attend all lectures and obtain the maximum educational benefit from the information presented
- Is not permitted to take tests or examinations in the course being audited
- Is authorized to receive a courtesy library card permitting use of the Newton Gresham Library for the duration of the course audit
- Is not authorized to be issued an SHSU Student Identification Card unless also enrolled as a regular student
- Is not authorized to use SHSU medical, athletic, or recreational facilities unless also enrolled as a regular student
- Will not receive record of course audit (i.e. the course will not appear on a transcript), and no record of course completion will be maintained in the Registrar's Office

Transcripts

Options to order transcripts can be found on the Student Transcripts (https://www.shsu.edu/dept/registrar/transcripts-and-student-records/transcripts.html) website. Students with an outstanding financial balance(s) due to the university must contact Student Financial Services (https://www.shsu.edu/dept/sfs/) for direction on obtaining an official transcript.

Degree Requirements and Academic Guidelines

- Undergraduate Degree Requirements (p. 87)
- University Academic Policy Manual and Student Guidelines (p. 88)
- Core Curriculum (p. 88)
- Scholastic Requirements (p. 91)
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Undergraduate Degree Requirements

- Undergraduate Degree Requirements (p.)
- University Academic Policy Manual and Student Guidelines (p. 88)

Undergraduate Degree Requirements (General)
Bachelor's Degrees

All bachelor's degrees contain the following MINIMUM requirements:

Total Hours. A minimum of 120 hours total (developmental courses not included) is required of each bachelor's degree. Some bachelor's degree programs may require additional hours above the 120 minimum.

Advanced Hours. (3000-4000 level courses) 42 semester hours of advanced work must be completed for a bachelor's degree. Courses taken from a community college do not transfer for advanced credit.

Minimum Residence - All college level courses completed at SHSU are considered "in residence" including when taken at SHSU - The Woodlands Center, as an online course, or at any pre-approved off-campus sites (example: Student Teaching courses completed at a pre-approved school district). Note: Courses previously completed through correspondence are NOT considered "in residence" hours. Developmental courses are NOT considered college level hours for the completion of the degree.

Required hours completed "in residence" for a bachelor's degree:

- At least 25% of the semester credit hours (SCH) required by the degree must be taken SHSU (example: 30 semester credit hours for a 120 credit hour program). Of the 25% residency hours required, 24 SCH hours must be advanced (3000 or 4000 level)
- 12 semester credit hours (SCH) of advanced (3000 or 4000 level) coursework within each major field of study
- 6 semester credit hours (SCH) of advanced (3000 or 4000 level) coursework within each minor field of study (if applicable)

Grade Point Average (GPA) - Degree Requirements

A minimum 2.00 GPA is required in the following:

- SHSU GPA
- Overall GPA (SHSU coursework and transfer coursework. This is considered the cumulative grade point average.)
- SHSU Major GPA (some programs may require a higher GPA)
- Overall Major GPA (SHSU coursework and transfer coursework)
- SHSU Minor GPA (some minors may require a higher GPA)
- Overall Minor GPA (SHSU coursework and transfer coursework)

Academic Credit and Institutional GPA

- Academic credit for additional major or minor coursework shall be applicable to SHSU GPA in order to achieve minimum required grade point averages for graduation purposes. Academic credit for additional major and minor coursework beyond course requirements as noted on a student's degree plan may be used for SHSU GPA purposes and does not increase the total required hours for the degree program.

Degree Works/Degree Plan

The specific degree course requirements will be listed in the student's degree plan. A degree plan outlines academic requirements for successful completion of a specific degree. Students are encouraged to use the Student Advising & Mentoring (SAM Center) (https://www.shsu.edu/centers/sam-center/) for advice on degree plans. Students may view their degree plan via My Sam (https://mysam.shsu.edu) using DegreeWorks located under the Student Tab.

The Notes section in Degree Works contains important information from academic advisors, the Registrar's Office, and academic departmental staff, including academic deans. Students should review the Notes section in Degree Works regularly.

The university provides advisors through the Student Advising & Mentoring Center (Sam Center) (https://www.shsu.edu/centers/sam-center/)to assist students with registration and ensure appropriate progress toward completing degree requirements. However, the student is responsible for ensuring all degree requirements are fulfilled.

Students are placed under a degree and major based on the selection at the time of application to SHSU. Through an advisement session at the Student Advising & Mentoring (Sam Center) (https://www.shsu.edu/centers/sam-center/), a student has the option to change their degree, major, minor, or add an approved concentration. In addition, a later catalog may be selected, provided the requirements are met no later than six years from the effective date of the selected catalog. Students are responsible for knowledge of the detailed requirements of the degree plan, including any special requirements of the major and/or minor department. Some academic departments may require approval for a change of major.

Visit the Student Advising & Mentoring ((https://www.shsu.edu/centers/sam-center/)Sam Center) (https://www.shsu.edu/centers/sam-center/) website for contact information to make an appointment with an academic advisor.

Second Degree

Any student with a completed baccalaureate degree from SHSU or any other regionally accredited institution may earn a second baccalaureate degree differing in basic academic subject area and concentration from the first degree earned by completing the following requirements:

- With academic chair and dean approval, a student may be permitted to pursue a second degree with a major in the same discipline as a previously awarded minor
- A minimum of an additional 30 semester credit hours in residence above the total hours required for the first degree, of which 24 must be advanced hours
- Any additional requirements of the department and college approving the respective degree plan
- Any additional SHSU requirements associated with the second degree sought
- Completing two majors under the same baccalaureate program in the same term does not constitute a second degree

University Academic Policy Manual and Student Guidelines

SHSU's Academic Policy Manual (https://www.shsu.edu/dept/academic-affairs/policies.html) and Student Complaints and Grievance Procedures (https://www.shsu.edu/dept/academic-affairs/grievances.html) (https://www.shsu.edu/dept/dean-of-students/guidelines/student-guidelines/)provide specific information about the university's educational procedures and student conduct. Copies of these publications may be viewed at the Reference Desk in the Newton Gresham Library (https://library.shsu.edu/) or online.

Core Curriculum

The Core Curriculum at Sam Houston State University (SHSU) contains 42 semester credit hours, encompassing nine component areas. Each component area has a minimum credit hour requirement and a set of specific courses that may be used to satisfy the requirement. The chart below details the SHSU courses and their Texas Common Course Number (TCCN) equivalents that comprise SHSU's core curriculum.

Core Curriculum

Component Area I: Communication

Course Number	TCCN (if applicable)
Component Area I: Communication	**6 Hours Required**
ENGL 1301	ENGL 1301
ENGL 1302	ENGL 1302

Component Area II: Mathematics

Course Number	TCCN (if applicable)
Component Area II: Mathematics	**3 Hours Required**
MATH 1314	MATH 2312
MATH 1316	MATH 1316
MATH 1324	MATH 1324
MATH 1332	MATH 1332
MATH 1342	MATH 1342
MATH 1384	MATH 1350
MATH 1410	
MATH 1420	MATH 2413
PHIL 2352 [1]	

[1] Students with a documented learning disability and approval from the Department of Mathematics may use PHIL 2352 (Introduction to Contemporary Logic) to satisfy Component Area II: Mathematics.

Component Area III: Life and Physical Science

Course Number	TCCN (if applicable)
Component Area III: Life and Physical Science	**8 Hours Required**
BIOL 1401	
BIOL 1406	
BIOL 1407	
BIOL 1408	
BIOL 1436	
BIOL 2401	BIOL 2404
BIOL 2403	BIOL 2401
BIOL 2404	BIOL 2402
BIOL 2411	
BIOL 2413	
CHEM 1406	CHEM 1406
CHEM 1407	CHEM 1407
CHEM 1411	CHEM 1411
CHEM 1412	CHEM 1412
GEOG 1401	
GEOL 1403	
GEOL 1404	
GEOL 1405	
GEOL 1436	
ISCI 1436	
PHYS 1401	PHYS 1401
PHYS 1403	
PHYS 1404	
PHYS 1411	PHYS 2425
PHYS 1422	PHYS 2426

Component Area IV: Language, Philosophy, and Culture

Course Number	TCCN (if applicable)
Component Area IV: Language, Philosophy, and Culture	**3 Hours Required**
ARAB 2311	ARAB 2311
ARAB 2312	ARAB 2312
ENGL 2332	ENGL 2332
ENGL 2333	

FREN 2311	FREN 2311
FREN 2312	FREN 2312
GEOG 2355	GEOG 1303
GEOG 2356	GEOG 1303
GERM 2311	GERM 2311
GERM 2312	GERM 2312
HSTY 2311	HIST 2311
HSTY 2312	HIST 2312
MCOM 1330	
MUSI 1379	
PHIL 1301	PHIL 1301
PHIL 2306	PHIL 2306
SGNL 2311	
SGNL 2312	SGNL 2312
SOCI 2319	SOCI 2319
SPAN 2311	SPAN 2311
SPAN 2312	SPAN 2312

Component V: Creative Arts

Course Number	TCCN (if applicable)
Component Area V: Creative Arts	**3 Hours Required**
ARTS 1301	ARTS 1301
ARTS 1302	
ARTS 1303	ARTS 1303
DANC 1372	
CAMX 2301	
MCOM 2366	
MUSI 1306	MUSI 1306
MUSI 1310	MUSI 1310
MUSI 2348	MUSI 1308
PLSC 2399	ARTS 1301
THEA 1366	

Component Area VI: U.S. History

Course Number	TCCN (if applicable)
Component Area VI: U.S. History	**6 Hours Required**
HSTY 1301	HIST 1301
HSTY 1302	HIST 1302

Component Area VII: Political Science/Government

Course Number	TCCN (if applicable)
Component Area VII: Political Science / Government	**6 Hours Required**
POLS 2305	GOVT 2305
POLS 2306	GOVT 2306

Component Area VIII: Social and Behavioral Sciences

Course Number	TCCN (if applicable)
Component Area VIII: Social and Behavioral Sciences	**3 Hours Required**
ANSC 2360	
BESL 2301	
COMS 2386	SPCH 1318
CRIJ 2361	CRIJ 1301
ECON 2300	ECON 1301

ECON 2301	ECON 2301
ECON 2302	ECON 2302
GEOG 1300	
HLTH 2383	
MCOM 1307	
PHIL 2303	PHIL 2303
PSYC 1301	
SOCI 1301	

Component Area IX: Component Area Option

Course Number	TCCN (if applicable)
Component Area IX: Component Area Option	**4 Hours Required**
Additional course from Component Area 4	
BUAD 1301	
BUAD 2321	
COMS 1361	
COMS 2382	
ECON 1100	
KINE 2115	PHED 1164
MCOM 1371	
MCOM 1130	
NGLI 1101	
UNIV 1101	
UNIV 2112	
The 4th credit hour of MATH 1410	
The 4th credit hour of MATH 1420	

Revised Fall 2025
Revised Fall 2024
Revised Fall 2000
Revised July 24th, 2001
Revised May 16, 2002
Revised March 3, 2004
Revised August 2014
Revised March 2016
Revised March 2018
Revised May 2019

Scholastic Requirements

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Grades and Grade Points

Sam Houston State University's grade system consists of five grades:

Grade	Description	Grade Points Per Semester Hours
A	Excellent	4
B	Above average	3
C	Average	2

D	Passing (not necessarily satisfying degree requirements)	1
F	Failure	0

Note: All of the above grades will be used in grade point average (GPA) calculations.

The following grades are assigned but are **not** used in the grade point average calculations:

X (Incomplete)

The X grade indicates the student has not been able to complete the course because of emergency circumstances beyond the student's control. See the Registrar's website (https://www.shsu.edu/dept/registrar/faculty-and-staff/Registrar%20X%20to%20F%20Process.pdf) for explanation of the X grade process.

The X grade is a temporary grade placeholder used under the following circumstance and with the following stipulations:

- Permission to award the grade of X is granted by the academic chair of the course discipline and with the recommendation of the instructor when emergency circumstances outside of the student's control prevented the student from being able to complete the assignments and exams for the class.
- It is expected the student will complete course assignments and any remaining exams without further instruction or tutoring from the course instructor.
- A grade change must be submitted to the Registrar's Office by the grade entry deadline of the next long term, or the grade of X will automatically change to a grade of F. Only the instructor of the course may initiate the grade change. (Grade Change Forms are submitted online.)
- A grade of X will not remain on the student record indefinitely or beyond the next long term.
- Academic standing will be re-calculated with the submitted grade change or with assigned F grade. This may result in Academic Probation or Suspension and the loss of future term course registration.

MG (Missing Grade)

The MG grade indicates the no final grade was reported by the instructor at the end of a term. Students should pursue the posting of the grade with their instructor. The MG grade is a temporary placeholder with the following stipulations:

- A grade change must be submitted to the Registrar's Office by the grade entry deadline of the upcoming fall or spring term (whichever applies). Only the instructor of the course may initiate the grade change. (Grade Change Forms are submitted online.)
- A grade of MG will not remain on the student record indefinitely or beyond the next long term.
- Academic standing will be re-calculated with the submitted grade change and may result in Academic Probation or Suspension and the loss of future term course registration.

IP (In Progress)

Assigned to thesis and other selected courses designed to require additional time to complete course requirements. Refer to the Registrar's website (https://www.shsu.edu/dept/registrar/faculty-and-staff/Registrar%20X%20to%20F%20Process.pdf) for explanation of the IP grade process.

CR (Credit)

Designates that academic credit was earned for the course. Hours earned with the grade of CR are counted in determining classification but are not used to calculate GPA.

NC (Non-Credit)

Designates that academic credit was not earned for the course and is not used to calculate GPA.

Q (Q-drop)

The grade of Q is assigned to courses dropped from the 13th class day for a fall, spring, or summer full term, through the Q-drop deadline as indicated on the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html), but before any final exams being taken or course completion. Courses with the grade of Q will not be included in the calculation of term or overall GPAs. Parts of terms within a term (such as 7 1/2 week or 5 week courses) use a different class census date unique to that part of term to determine when a Q grade will be assigned.

Undergraduate students are allowed no more than 6 Q-drops during their combined career at all Texas public colleges and universities. Any Q-drops accumulated prior to Fall 2007 (https://capitol.texas.gov/tlodocs/80R/billtext/html/SB01231F.HTM) will not be included in the calculation. Students are encouraged to visit their academic advisor and financial aid counselor before dropping a course.

Courses with the grade of Q are considered hours attempted when calculating excessive hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html)as mandated by the state and when calculating excessive hours for the purpose of tuition rebate (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html) (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html)at the point of graduation.

W (Resigned)

Students who resign after the 12th class day of a fall, spring, and summer full terms receive a grade of W (Resigned) for each course for which they were enrolled. If a student has received a grade in any course in a part of term, within the full term, they are ineligible to resign. An example would be a student who completes a course in the Summer I session would not be eligible to resign from the Summer II session. Although a student may be ineligible to resign, they may have the option to drop the course within the designated deadline.

Courses with the grade of W are considered hours attempted when calculating excessive hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) as mandated by the state and when calculating excessive hours for the purpose of T (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html)uition Rebate (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html) at the point of graduation.

*** (Developmental Course Designation)**

Any grade with an asterisk (*) symbol indicates a developmental course.

Note: Class days are university class days (Monday through Friday), not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus daytime courses as indicated in the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).

Determining Grade Point Average (GPA)

The grade point average (GPA) is calculated by dividing the **quality points earned** by the **total GPA hours attempted toward the degree**. The total GPA hours attempted toward the degree will not include developmental courses and courses assigned a CR (credit) or NC (non-credit) grade. The GPA is carried out two decimals (2.00) and is not rounded. Courses receiving the grades of IP, X or MG are not used in the hours calculating the GPA until a grade change form has been processed replacing grades of IP, X, or MG. The change of X or MG grade to A, B, C, D, or F will affect the term academic standing which will be reviewed with the grade change process. Developmental courses are currently assigned the grades of CR*/NC* and do not apply to the calculated grade point average or as credits toward degree completion. Historic developmental courses were assigned grades of A*, B*, C*, D*, F* and were not used in the calculation of GPA or as credits toward degree completion.

Quality points earned are determined by multiplying the number of hours assigned to the course by the number assigned to the grade for that course. For example, the number of quality points for a three-hour course for which a B is earned is nine, i.e. 3 x 3 = 9. See an academic advisor (https://www.shsu.edu/centers/sam-center/) for questions about calculating GPAs.

Quality points are computed for a given term on the basis of term hours attempted. A course attempted, for GPA purposes, is defined as one in which the student receives a grade of A, B, C, D, or F, excluding developmental courses.

Courses marked with “E” on a students transcript indicates "exclude" and are not calculated into the grade point average.

Please see the Student Complaints and Grievance Procedures (https://www.shsu.edu/dept/academic-affairs/grievances.html) if the student would like to dispute the grade assigned.

Repeating Courses Previously Attempted

Careful consideration should be given to the GPA when deciding to repeat a course.

- An “I” (include) is noted on the transcript record for the course with the highest grade which is calculated into the GPA.
- An “E” (exclude) is noted on the transcript record for the course with the lower grade earned which will not be calculated into the GPA.

A course repeated at a transfer institution where the highest grade is earned would require a recalculation of the GPA and total hours completed at SHSU and could affect degree requirements. See an academic advisor (https://www.shsu.edu/centers/sam-center/) to have your transcript record and degree plan reviewed.

Repeating a course previously passed (i.e., a course with any grade other than F or NC) more than once may result in the repeated course not being eligible for financial aid. A student may repeat a previously passed course that counts toward the degree only one time for the repeated course to be financial aid eligible. Second and subsequent repeats of previously passed courses may not be financial aid eligible and are subject to a financial aid

review. Courses designated as repeatable for credit by the academic department will be financial aid eligible when the degree plan requirements call for multiple enrollments.

Repeated courses are considered hours attempted when calculating excessive hours (https://www.shsu.edu/dept/registrar/students/registration/excessive-hours-or-taken-more-than-twice.html) as mandated by the state and when calculating excessive hours for the purpose of Tuition Rebate (https://www.shsu.edu/dept/registrar/graduation/apply-to-graduate/tuition-rebate.html) at the point of graduation.

Class Attendance

1. Regular and punctual class attendance is expected of each student at SHSU.
2. Each faculty member shall inform students of their course attendance policy at the initial class meeting and include this information in the course syllabus.
3. Students are expected to meet the faculty member's attendance requirements for the course.
4. Each faculty member is expected to monitor course enrollment and class attendance.
5. A student's failure to meet the course attendance requirements may lower their grade(s), including the final course grade.
6. Each faculty member shall inform students of their policies for accepting late work or providing makeup examinations and include this information in the course syllabus.
7. Students are expected to show appropriate cause for missing or delaying major assignments or examinations.
8. Making up missed work for an absence may be allowed or declined at the discretion of the faculty member.

Student Absences on Religious Holy Days

Section 51.911(b) of the Texas Education Code (https://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=1&ch=4&rl=4) requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student who is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

Final Examinations

Final examinations are not given before the designated time in the official final examination schedule (https://www.shsu.edu/dept/registrar/calendars/final-exam-schedules.html). A student is not permitted to take a final examination before all other work for the course is completed. The final exam schedule may be located on the Registrar's website (https://www.shsu.edu/dept/registrar/calendars/final-exam-schedules.html). If a student has completed a final exam, they are ineligible to resign from the term.

Dean's List of Academic Honors

Undergraduate students who attain a grade point average (GPA) of 3.5 or higher, with no grade of F, for all courses attempted while earning not less than twelve semester credit hours of academic coursework during the fall or spring term are included on the Dean's List of Academic Honors. The Dean's List is released at the close of each fall or spring term and posted to the Registrar's website (https://www.shsu.edu/dept/registrar/students/presidents-deans-list.html). Developmental courses are not included in the twelve semester credit hours used to calculate the Dean's List of Academic Honors. Developmental hours completed above the twelve academic hours will require a grade of Credit (CR) in order to qualify for the Dean's list. The Dean's List is not provided for summer terms.

The Dean's List of Academic Honors requirements are:

- 3.5 GPA for all courses attempted in the term regardless of repeated courses
- Minimum of 12 completed academic hours (developmental hours will not be included in the initial 12 hour requirement)
- Developmental courses must earn a grade of CR (Students earning a grade of Non-Credit (NC) in any developmental courses taken within the term will not qualify for the Dean's List)

What can prevent a student from being listed on the published online Dean's List?

- Grades of NC, IP, X, or MG within the term
- Student has elected to opt-out of FERPA directory information
- Grade changes processed after the Dean's List is published
- Graduate, certificate seeking, and professional level students are not eligible for the Dean's List of Academic Honors

As of Fall 2011, a "Dean's List" notation is designated on the official transcript for undergraduate students.

President's Honor Roll

Undergraduate students who achieve a grade point average (GPA) of 4.0 in all coursework attempted while earning not less than twelve semester credit hours of academic coursework during the fall or spring term attain the distinction of being included on the President's Honor Roll. The President's Honor Roll is released at the close of each fall or spring term and posted to the Registrar's website (https://www.shsu.edu/dept/registrar/students/presidents-deans-list.html). Developmental courses are not included in the twelve semester credit hours used to calculate the President's Honor Roll. Developmental hours completed above the twelve academic hours will require a grade of Credit (CR) in order to qualify for the President's Honor Roll. The President's Honor Roll is not provided for summer terms.

The President's Honor Roll requirements are:

- 4.0 GPA for all courses attempted in the term regardless of repeated courses
- All course work completed in the term must earn a grade of A
- Minimum of 12 completed academic hours (developmental hours will not be included in the initial 12 hour requirement)
- Developmental courses must earn a grade of CR (Students earning a grade of Non-Credit (NC) in any developmental courses taken within the term will not qualify for the President's Honor Roll

What can prevent a student from being listed on the published online President's List?

- Grades of NC, IP, X, or MG within the term
- Student has elected to opt-out of FERPA directory information
- Grade changes processed after the President's List is published
- Graduate, certificate seeking, and professional level students are not eligible for the President's Honor Roll

As of Fall 2011, a "President's List" notation is designated on the official transcript for undergraduate students.

Academic Standing

- Academic Good Standing for Undergraduate Students (p. 95)
- Academic Probation for Undergraduate Students (p. 95)
- Academic Suspension for Undergraduate Students (p. 95)
- Academic Grievance Procedures for Students (p. 95)

Academic Good Standing for Undergraduate Students

Students in academic good standing have a Sam Houston State University (SHSU) grade point average (GPA) of at least 2.0.

Academic Probation for Undergraduate Students

An undergraduate student who falls below the minimum 2.0 SHSU overall GPA at the close of any term will be placed on probation. Students on probation are required to meet with an academic advisor in order to remain registered in the subsequent term.

If an enrolled student on probation achieves a current term GPA of 2.0 or higher but fails to achieve a minimum 2.0 SHSU GPA at the close of the next semester or summer semester following the start of the probation, the student will be placed on continued probation. If an enrolled student on probation or continued probation fails to achieve a current term GPA of 2.0 or higher at the close of the next semester or summer semester following the start of the probation or continued probation, the student will be suspended. See Academic Policy Statement 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf) for more details.

Academic Suspension for Undergraduate Students

Students who fall below a 2.0 SHSU overall GPA in the term following the probation standing will be suspended academically. Academically suspended students must be approved for readmission by the college's academic dean, to which the student will enroll at the time of their readmission. The petition for readmission must be made in writing, and the student must be re-advised to register or to remain registered in the subsequent term. See Academic Policy Statement 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf)for more details.

International students placed on academic suspension should report to the International Student Advisor in the G (https://www.shsu.edu/dept/international-programs/)lobal Engagement Center (https://www.shsu.edu/dept/global-engagement/).

Academic Grievance Procedures for Students

Academic grievances include disputes over academic standards, course grades, unauthorized class absences or tardiness, suspension from the university for academic deficiency, and/or alleged unprofessional conduct by a course instructor. See Academic Policy Statement 900823, (https://

www.shsu.edu/dept/academic-affairs/documents/aps/students/900823%20Academic%20Grievance%20Procedures%20for%20Students.pdf)for additional information.

Graduation

- Application for Graduation (p. 96)
- Graduation Application Deadlines (p. 96)
- Graduation Application Fee (p. 96)
- Transferring Courses in Term of Graduation (p. 96)
- Tuition Rebate for Undergraduates (p. 97)
- Graduation with Special Recognition (p. 97)
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Application for Graduation

Students must submit their online application for graduation in the term of degree completion. Degree candidates enrolled in all coursework required to complete the degree and who also meet the required major, minor, and overall grade point averages are permitted to participate in the graduation ceremony. The application for graduation is required for degree awarding within a term and must be submitted by the pre-set graduation application deadline from the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html). See the Graduation Application Deadlines section below.

Students who fail to submit the application for graduation to the Registrar's Office within the term of degree completion may submit an application for graduation in a subsequent term. For these students, the degree will be awarded pending the completion of all degree requirements.

Graduation Application Deadlines

- Students graduating in either a fall or spring term must submit the application for graduation prior to the 12th class day of their graduating term.
- Students graduating in the summer term must submit the application for graduation prior to the 4th class day of summer session one. The exact application deadline dates for current terms are available in the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).

Graduation Application Fee

The graduation application fee must be paid at the time of application. A student filing a graduation application after the published deadline will be assessed a late fee. The graduation application fees listed below are subject to change. **Please, be sure to visit the Office of the Registrar (https://www.shsu.edu/dept/registrar/) for the most up-to-date fees.**

- The fee for students who apply by the published deadline is $50.00.
- The fee for students who apply after the published deadline is $80.00.

Applications for graduation must be received before the graduation ceremony to be awarded a degree within that term. The application fee does not roll forward to future terms. Students who do not meet degree requirements in the term of graduation application will need to re-apply and pay the graduation application fee again.

Transferring Courses in Term of Graduation

Completing final degree-required courses at a transfer institution in the term of expected graduation is highly discouraged. The SHSU final grade deadline may not align with other institutions. Regardless, the SHSU final grade deadline must be adhered to in order to award a degree. **No exceptions will be made.**

The Registrar's Office requires:

- The Notification of Transfer Course Form must be submitted with the graduation application. Students must contact their SHSU academic advisor to initiate the Form.

The Admissions Office requires:

- An official transfer transcript, including any final course grades, must be submitted to the Admissions Office by the SHSU grade deadline, as published in the Academic Calendar, (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html)to articulate the coursework to the SHSU academic record. The student should notify the Admissions Office (https://www.shsu.edu/admissions/) and the Graduation Team (Graduation (Graduationteam@shsu.edu)) in the Registrar's Office upon submission of the transfer transcript.

Warning: Transfer grades not arriving by the final grade deadline will result in no degree awarded. Students will be required to re-apply for graduation and pay the application fee in a subsequent term. Degrees are not awarded to students without an application for graduation on file with the Registrar's Office within the term of degree completion.

Tuition Rebate for Undergraduates

The tuition rebate program was created by Senate Bill 1907, 75th Texas Legislature. The Texas Education Code §54.0065 (http://www.statutes.legis.state.tx.us/Docs/ED/htm/ED.54.htm#540065) authorizes qualified undergraduate students to receive up to $1,000 in tuition rebate upon completing an undergraduate baccalaureate degree.

This program aims to provide a financial incentive for you to complete a bachelor's degree efficiently, taking as few courses outside your degree plan as possible. The program's goal is to minimize the number of courses you take – saving money for you, your parents, and the State of Texas. To remain on track to earn the rebate at Sam Houston State University, it is important to meet and follow course completion advisement from an academic advisor (https://www.shsu.edu/centers/sam-center/). Repeated and Q-dropped course hours are calculated as attempted hours and could negatively affect the awarding of the tuition rebate.

Students are required to apply for the rebate during the term in which they plan to graduate. The Tuition Rebate Application (https://www.shsu.edu/dept/registrar/forms-and-documents/forms-and-documents.html) is available online. Visit the College for All Texans (http://www.collegeforalltexans.com/apps/financialaid/tofa2.cfm?ID=447) website for more details.

Graduation with Special Recognition

Undergraduate students who achieve exceptional academic performance are honored with special recognition during their graduation ceremony. Graduates who have achieved undergraduate academic excellence at the university receive a gold cord at graduation to reflect this achievement. The gold cord indicates one of the following Latin Honors academic achievements: Summa Cum Laude, Magna Cum Laude, Cum Laude.

Degrees conferred Cum Laude, Magna Cum Laude, and Summa Cum Laude reflect an outstanding grade point average with a minimum of 30 semester credit hours earned in residence at Sam Houston State University, with no fewer than 24 hours being advanced course work. To qualify for these honors, students must meet the GPA requirements in both the SHSU **and** overall (transfer and SHSU combined) GPA. The distinction and corresponding grade point averages are:

- Cum Laude—3.50 to 3.66
- Magna Cum Laude—3.67 to 3.85
- Summa Cum Laude—3.86 to 4.00

The Academic Distinction Program is an individualized learning experience available to outstanding students at SHSU within each department. An Academic Distinction Program project provides qualified students with a comprehensive introduction to meaningful research under the guidance of a designated faculty advisor. See the Graduation with Academic Distinction section.

Participation in the Honors Program at SHSU is based on a competitive selection process and provides outstanding academic opportunities and distinct undergraduate college experiences. Upon successful completion of the Honors Program (24 semester credit hours of Honors courses including two special seminars), the student's academic transcript will indicate graduation "With Honors," and the student may wear an Honors medallion provided by the Honors College with their academic regalia. To be designated as having graduated "With Highest Honors," the student must also successfully complete a special senior project involving original research and/or an effort of creative expression.

Note: Grades earned in prior correspondence courses completed are not used in determining the GPAs for the graduation Latin honors of Cum Laude, Magna Cum Laude, or Summa Cum Laude.

Graduation with Academic Distinction

An enriched program is offered to superior students at SHSU, culminating in the student receiving a diploma designating that the degree is being conferred "With Academic Distinction" in a field of specialization. The program consists of six credit hours of individual work on a project under the guidance of a designated faculty member. To qualify for Academic Distinction, the student must enroll in six semester credit hours in an approved department Academic Distinction program. See Academic Policy Statement 800521 Academic Distinction (https://www.google.com/url/?client=internal-element-cse&cx=004830602591387252590:t-rzmg-jbaw&q=https://www.shsu.edu/dept/academic-affairs/documents/aps/800521%2520Academic%2520Distinction.pdf&sa=U&ved=2ahUKEwiT7KGnuNmIAxV1PUQIHXWdKlwQFnoECAAQAg&usg=AOvVaw3iGOOz-VnJM6Zi07sVBfrg) for qualifications of graduating with Academic Distinction.

Pursuit of Graduate Studies

SHSU graduate programs provide avenues for advanced and specialized study, catering to individuals who seek to contribute meaningfully to their respective professions and academic fields.

The university offers a range of graduate programs, including both Master's and Doctoral degrees, all designed to equip students with the skills and knowledge required for professional and academic advancement.

For a comprehensive list of available graduate programs, please refer to the "Degrees Offered (https://www.shsu.edu/home/catalog.html)" section of the catalog. This information is also accessible via the "Prospective Graduate Students (https://www.shsu.edu/beabearkat/graduate-journey/)" section on the university's website. For further details on scholarships and graduate assistantships, students should contact the relevant department or college administering the degree program of interest.

Transfer of Credit

The following guidelines and definitions pertain to the *Transfer Curricula and* Resolution of Transfer Disputes for Lower-Division Courses *(*http://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC/?tac_view=5&ti=19&pt=1&ch=4&sch=B&rl=Y*)* established by the Texas Higher Education Coordinating Board.

The definitions listed below were established by the Coordinating Board and will serve as criteria to resolve disputes. The publications *Transfer of Credit Policies and Curricula of the Texas Higher Education Coordinating Board* and *Community College General Academic Course Guide Manual: A Manual of Approved General Academic Transfer Courses for State Appropriations to Texas Public Community Colleges* are the references for this issue: **The following criteria for lower-division and upper-division course credit were adopted by the Task Force to Update the *Academic Course Guide Manual*.**

1. **Criteria for Lower-Division Course Credit**
   Lower-Division (Baccalaureate/Associate Degree) Courses
   Courses offered in the first two years of college study are generally those which:
   a. Are identified by a majority of public 4-year undergraduate institutions in the state as courses intended to comprise the first two years of collegiate study.
   b. Stress development of disciplinary knowledge and skill at an introductory level.
   c. Include basic principles and verbal, mathematical, and scientific concepts associated with an academic discipline

   Lower-division courses, designated as 1000- or 2000-level, taken at an institution other than a senior four-year institution do **not** satisfy the advanced hours requirement at Sam Houston State University. While these credit hours may be recorded on the student's academic record, and may satisfy a specific course requirement, they ***will not*** meet the **advanced** credit hour requirements. Advanced credit hours are only granted from four-year, baccalaureate-granting institutions.

2. **Criteria for Upper-Division Course Credit**
   Upper-Division (Baccalaureate) Courses
   Courses offered only in the third or fourth years of a baccalaureate program are those which:
   a. Are identified by a majority of public 4-year undergraduate institutions in the state as courses intended to comprise the third and fourth years of post-secondary study.
   b. Involve theoretical or analytical specialization beyond the introductory level.
   c. Require knowledge and skills provided by previous courses for successful performance by students.
   Upper-division courses, designated as 3000- or 4000-level, taken at community, junior, or "two-year" colleges do **not** satisfy the advanced hours requirement at Sam Houston State University. While these credit hours may be recorded on the student's academic record, and may satisfy a specific course requirement, they ***will not*** meet the **advanced** credit hour requirements. Advanced credit hours are only granted from four-year, baccalaureate-granting institutions.

3. **Free Transferability**
   Lower-division courses included in the *Academic Course Guide Manual* and specified in the definition of "Lower-Division Course Credit" shall be freely transferable to and accepted as comparable degree credit by any Texas public institution of higher education where the equivalent course is available for fulfilling baccalaureate degree requirements. It is understood that each Texas institution of higher education may have limitations that invalidate courses after a specific length of time.
   For Texas community colleges, these freely transferable courses are identified in the latest revised edition of Coordinating Board publication Lower Division Academic Course Guide Manua *(*http://www.thecb.state.tx.us/AAR/UndergraduateEd/WorkforceEd/acgm.htm*),* (revised 2014). Specifically excluded are courses designated as vocational, English as a Second Language, ESL/ESOL, technical, developmental or remedial, and courses listed as "basic skills."
   For senior four-year institutions, lower-division courses that have the same course content and CIP codes as approved by the Coordinating Board shall bear equivalent credit. Specifically excluded are courses designated as ESL/ESOL, technical and developmental/remedial courses.
   Within the spirit of the law, it is realized that differences in interpretation of "same course content" may generate disputes. Courses taken at community, junior, or "two-year" colleges (1000-, 2000-, 3000-, or 4000-level) do **not** satisfy the advanced hours requirement at Sam Houston State University. While these credit hours may be recorded on the student's academic record, and may satisfy a specific course requirement, they ***will not*** meet the ***advanced*** credit hour requirements. Advanced credit hours are only granted from four-year, baccalaureate-granting institutions.

   WECM Courses are designated by the Texas Higher Education Coordinating Board as workforce education (technical) courses offered for credit and CEUs (Continuing Education Units). While these courses are designed to transfer among state community colleges, they are not designed to automatically transfer to public four-year colleges and universities. For more information, visit Career & Technical Education/Workforce Initiatives (http://www.thecb.state.tx.us/aar/undergraduateed/workforceed/).

4. **Field of Study Curriculum**
   The Field of Study Curriculum is a set of courses that generally apply toward the lower-division requirements for a baccalaureate degree in a specific academic area at a general academic teaching institution.
5. **Core Curriculum**
   The curriculum in liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of an institution of higher education are required to complete before receiving an academic undergraduate degree.

6. **Disputes**
   Transfer disputes may arise when a lower-division course is not accepted for credit by a Texas institution of higher education. To qualify as a dispute the course(s) in question must be offered by the institution denying the credit (receiving institution), or in the case of upper-level institutions, must be published as a lower-division course accepted for fulfilling lower-level requirements. For community colleges, the course(s) must be listed in the *Lower Division Academic Course Guide Manual*, and be offered at the receiving institution. Additionally, the sending institution may challenge the receiving institution's denial of credit.
   Students at Sam Houston State University who require additional information/clarification regarding Transfer Dispute Resolution Guidelines should contact Undergraduate Admissions, telephone (936) 294-1828.
   The University reserves the right to refuse to accept transfer credit when the instructor of record does not meet the requisite academic credentials. Courses taken at community colleges do not satisfy the advanced hours required at Sam Houston State University.

The Texas Common Course Numbering System was developed in part to assist students in identifying which courses at one college will meet specific course requirements at another college. In other words, the common course numbering system promotes the successful transfer of course work among colleges and universities in Texas, making the transfer process easy for students.

The common course number has a standardized four-letter prefix followed by a four-digit number —example, ENGL 1301. The four-letter prefix identifies the subject area. Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours a student will earn upon completion of the course. Most often this digit will be a 1, 2, 3, or 4. The final two digits serve to establish the sequence in which courses are generally taken.

The following is a website listing the Sam Houston State University equivalents for common course numbers. TCCN (http://www.tccns.org)

Financial Information

- Tuition and Fees Information (p. 103)
- Tuition and Fees Schedule (p. 103)
- Explanation of Fees (p. 107)
- Tuition for Excessive Undergraduate Hours (p.)
- Residence Classification for Tuition Purposes (p. 109)
- Payment Information (p. 110)
- Financial Responsibility (p. 110)
- Payments (p. 110)
- Installment Payment Plan (p. 110)
- Nonpayment of Tuition and Fees (p. 110)
- Collections for Nonpayment (p. 110)
- Returned Check Policy (p. 110)
- Refund Information (p. 111)
- Tuition and Fees Refund Policy (p.)
- Dropping Courses (p. 111)
- Resignations/Withdrawals (p. 111)
- Tuition Rebates for Certain Undergraduate Students (p.)
- Financial Aid and Scholarships Office (p. 101)
- Types of Financial Aid (p. 101)
- Student Employment (p. 102)
- Resignations/Withdrawals (p. 102)
- Satisfactory Academic Progress (p. 102)
- Veteran's Benefits Assistance (p. 102)
- American Opportunity Tax Credit and Lifetime Learning Tax Credit (p. 103)
- CPOS Policy (p. 103)

Financial Aid and Scholarships Office

The Financial Aid and Scholarships Office at Sam Houston State University is available to assist students in achieving educational goals even when their personal or family finances are limited. While the student and/or their immediate family are primarily responsible for financing an education, the University recognizes its role in making a maximum effort to acquire additional funds for qualified students through a variety of aid programs. Specific financial aid programs the University administers are listed below.

For information on programs, application requirements, Satisfactory Academic Progress (SAP), student budgets, priority dates, links to the Free Application for Federal Student Aid (FAFSA) and all forms necessary to complete the application process visit our website Financial Aid & Scholarships (https://www.shsu.edu/dept/financial-aid/).

Types of Financial Aid

Grants

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (SEOG)
- Texas Public Educational Grant (TPEG)
- **T**oward **EX**cellence, **A**ccess and **S**uccess Grant (TEXAS grant)
- Teacher Education Assistance for College and Higher Education Grant (TEACH)
- Bearkat Grant

Loans

- College Access Loan
- Federal Direct Loan Program
- Parent Loan for Undergraduate Students (PLUS)

Semester Loans

- Bearkat Payment Extension Loan
- Short-term Loan for Books

Applications for Semester Loans may be completed on-line through the Financial Aid menu option on SamWeb. Semester loans are short term loans with a maximum loan period of 90 days.

Scholarships

Sam Houston State University offers scholarships for students who excel in academic achievement and leadership. Using a competitive process, awards are based on either merit or financial need. Some awards are competitively selected on the basis of both merit and financial need.

Most academic scholarships offered by SHSU can be applied for using a single application, which can be found on MySam under the Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) page. The application period begins early September for each upcoming academic year. Students must be admitted to Sam Houston State University and have an active computer services account.

Student Employment (Work Study)

Employment opportunities can be accessed online through PeopleAdmin. Students will need to create an account if they do not have one. Instructions can be found on the Human Resources website (https://www.shsu.edu/dept/hr/apply.html).

- Federal College Work-Study Program
- Texas College Work-Study Program

Resignations/Withdrawals

Students who receive Title IV financial aid and withdraw or drop all courses during the semester must be aware of the impact on their financial aid. Federal Title IV aid includes Pell Grant, Supplemental Educational Opportunity Grant, Subsidized/Unsubsidized Stafford Loans, and Direct PLUS Loans. It is recommended that students visit with their Financial Aid Counselor prior to withdrawing or dropping courses.

Title IV aid recipients must be continuously enrolled for at least 60% of the semester for which aid is disbursed to retain all of the financial assistance issued for that semester. After the 60% point, students are considered to have earned 100% of the Title IV funds disbursed. Any student who resigns prior to completing 60% of a semester must repay any unearned portion of their federal financial aid.

The amount of the repayment depends on the number of days attended during the semester, the type and amount of financial aid received and the total amount of institutional charges.

Earned federal financial aid is prorated according to the percentage of the semester completed. The earned aid is determined by the amount of total aid received minus the amount of unearned aid.

- Direct Unsubsidized Loan
- Direct Subsidized Loan
- Direct PLUS Loan (Parent Loan for Dependent Students)
- Direct GRAD PLUS Loan (Graduate Student)
- Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- TEACH Grant

Satisfactory Academic Progress (SAP)

Requirements must be met to remain eligible for Federal Aid. These requirements are known as Satisfactory Academic Progress (SAP). (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf)

Minimum requirements for undergraduate students are:

- A minimum SHSU grade point average (GPA) of 2.0
- Complete 67% of all attempted hours at SHSU and other institutions (transfer hours)
- No more than 180 attempted hours

For information, view the complete SAP Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf).

Veteran's Benefits Assistance

For information relating to Veteran's Benefits Assistance, visit with the School Certifying Officials located in the Estill Building, Suite 228 or the VETSUCCESS counselor in the Veteran's Resource Center, located in the Academic Building III, Suite 110. Assistance is available for those seeking to use the following:

- Montgomery GI Bill® (MGIB) - GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official U.S. Government Website (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill.&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0%2FN661cHeanOl2BeQ36GAoKTorfcqcC6P5RIzMrqkL4%3D&reserved=0) at https://www.benefits.va.gov/gibill (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2cu8vKUFxp1UnqO93EIHZr2mTgCO2O9bqxDq%2Bd2NSaQ%3D&reserved=0)
- Chapter 30 - Veteran status
- Chapter 31 – Veteran Readiness and Employment
- Chapter 33 – Post 9/11 GI Bill®
- Chapter 35 - Dependent
- Chapter 1606 – Reservist
- Hazlewood Act

American Opportunity Tax Credit and Lifetime Learning Tax Credit

Tax payers may be eligible to claim the American Opportunity Tax Credit against their federal income taxes. Depending on the family and student financial situation, the credit that may be claimed varies. It may be as much as $2,500 (100% of first $2,000 and 25% of second $2,000 of qualified tuition and related expenses such as tuition, fees and course materials).

In addition, the Lifetime Learning Credit may be available for up to $2,000 per family for qualified tuition and related expenses. Congress has established that the Lifetime Learning Tax Credit begins for payments made after July 1, 1998.

These tax credits may reduce the amount of federal income tax one is required to pay. These tax credits are reviewed by the federal government periodically, therefore, annual referral to the IRS website is recommended.

CPOS Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/cpos.pdf)

Per Title IV regulations, a student cannot receive federal aid for coursework that does not lead to the completion of their degree. This is stated in CFR 34 668.32 (a)(1)(i) which defines “a regular student as one that is enrolled or accepted for enrollment at an institution for the purpose of obtaining a degree, certificate, or other recognized educational credential offered by that institution.” In summary, Title IV funds are intended to pay for courses that go towards a student’s program of student to assist them in obtaining an academic credential.

Tuitions & Fees

- Tuition and Fees Information (p. 103)
- Tuition and Fees Schedule (p. 103)
- Explanation of Fees (p. 107)
- Tuition for Excessive Undergraduate Hours (p.)
- Residence Classification for Tuition Purposes (p. 109)

Tuition and Fees Information

Tuition and Fees Schedule 2025-2026 Academic Year

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System. Nonresident tuition (out-of-state and international) is calculated each year by the Texas Higher Education Coordinating Board.

Guaranteed Price Plan Information

In addition to the traditional price plan, a **Guaranteed Tuition Price Plan** (GPP) is available. (Comparison of rates are available on the current tuition and fee schedules available on the Student Account Services(Cashier) website. Only Texas residents entering SHSU for the first time are eligible to select the GPP as a price plan option. The GPP is a fixed cost tuition payment program that is valid for 12 consecutive terms including Summer terms. Before making this selection, we encourage you to review the FAQ information document as the GPP may not benefit certain students.

Example: A student whose first term of enrollment was Fall 2025 would have a Summer 2029 term GPP expiration date.

The GPP is only available for enrollment the first term of attendance at the university if all other requirements are met. Deadlines apply for selecting the GPP. After the deadline has passed, you may not remove yourself from the plan until it expires (12 consecutive terms) and refunds are not provided for any differences in plan cost.

If you are qualified to select a Guaranteed Price Plan, you may make your selection through MySam. Go to MYSAM, (http://mysam.shsu.edu) select Campus Resources tab, then Banner Self Service> Student> Guaranteed Price Plan

Tuition and Fees Per Semester

Fall 2025 - Spring 2026

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	636.60	1	1,041.60
2	998.20	2	1,808.20
3	1,359.80	3	2,574.80
4	1,721.40	4	3,341.40
5	2,083.00	5	4,108.00
6	2,444.60	6	4,874.60
7	2,806.20	7	5,641.20
8	3,167.80	8	6,407.80
9	3,529.40	9	7,174.40
10	3,891.00	10	7,941.00
11	4,252.60	11	8,707.60
12	4,614.20	12	9,474.20
13	4,975.80	13	10,240.80
14	5,337.40	14	11,007.40
15	5,685.00	15	11,760.00
16	6,029.00	16	12,509.00
17	6,373.00	17	13,258.00
18	6,717.00	18	14,007.00
19	7,061.00	19	14,756.00
20	7,405.00	20	15,505.00
21	7,749.00	21	16,254.00
22	8,093.00	22	17,003.00
23	8,437.00	23	17,752.00
24	8,781.00	24	18,501.00

Tuition and Fees Per Summer Session

Summer 2026

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	617.80	1	1,022.80
2	960.60	2	1,770.60
3	1,303.40	3	2,518.40
4	1,646.20	4	3,266.20
5	1,989.00	5	4,014.00
6	2,331.80	6	4,761.80
7	2,674.60	7	5,509.60
8	3,017.40	8	6,257.40
9	3,360.20	9	7,005.20
10	3,703.00	10	7,753.00
11	4,045.80	11	8,500.80
12	4,388.60	12	9,248.60

[1] Included in the amounts above are Tuition, Designated Tuition, Institutional Services Fee, Intercollegiate Athletic Fee, Student Service Fee, Student Center Fee, Medical Fee, and Recreational Sports Fee.

Tuition and Fees Per Summer Session - RN to BSN

Summer 2026

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	498.80	1	903.80
2	722.60	2	1,532.60
3	946.40	3	2,161.40
4	1,170.20	4	2,790.20
5	1,394.00	5	3,419.00
6	1,617.80	6	4,047.80
7	1,841.60	7	4,676.60
8	2,065.40	8	5,305.40
9	2,289.20	9	5,934.20
10	2,513.00	10	6,563.00
11	2,736.80	11	7,191.80
12	2,960.60	12	7,820.60

[1] Included in the amounts above are Tuition, Designated Tuition, Institutional Services Fee, Intercollegiate Athletic Fee, Student Service Fee, Student Center Fee, Medical Fee, and Recreational Sports Fee.

Course-related or program-related fees are examples of fees not included in the above estimates. Please review Explanation of Fees (p. 107) in this catalog.

Tuition and Fees Schedule 2026-2027 Academic Year

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System. Nonresident tuition (out-of-state and international) is calculated each year by the Texas Higher Education Coordinating Board.

Tuition and Fees Per Semester

Fall 2026 - Spring 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	636.60	1	1,041.60
2	998.20	2	1,808.20
3	1,359.80	3	2,574.80
4	1,721.40	4	3,341.40
5	2,083.00	5	4,108.00
6	2,444.60	6	4,874.60
7	2,806.20	7	5,641.20
8	3,167.80	8	6,407.80
9	3,529.40	9	7,174.40
10	3,891.00	10	7,941.00
11	4,252.60	11	8,707.60
12	4,614.20	12	9,474.20
13	4,975.80	13	10,240.80
14	5,337.40	14	11,007.40
15	5,685.00	15	11,760.00

16	6,029.00	16	12,509.00
17	6,373.00	17	13,258.00
18	6,717.00	18	14,007.00
19	7,405.00	19	14,756.00
20	7,405.00	20	15,505.00
21	7,749.00	21	16,254.00
22	8,093.00	22	17,003.00
23	8,437.00	23	17,752.00
24	8,781.00	24	18,501.00

Tuition and Fees Per Summer Session

Summer 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	617.80	1	1,022.80
2	960.60	2	1,770.60
3	1,303.40	3	2,518.40
4	1,646.20	4	3,266.20
5	1,989.00	5	4,014.00
6	2,331.80	6	4,761.80
7	2,674.60	7	5,509.60
8	3,017.40	8	6,257.40
9	3,360.20	9	7,005.20
10	3,703.00	10	7,753.00
11	4,045.80	11	8,500.80
12	4,388.60	12	9,248.60

[1] Included in the amounts above are Tuition, Designated Tuition, Institutional Services Fee, Intercollegiate Athletic Fee, Student Service Fee, Medical Fee, Student Center Fee, and Recreational Sports Fee.

Course-related or program-related fees are examples of fees not included in the above estimates. Please review Explanation of Fees (p. 107) in this catalog.

Tuition and Fees Per Semester - RN to BSN

Fall 2026 - Spring 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	517.60	1	922.60
2	760.20	2	1,570.20
3	1,002.80	3	2,217.80
4	1,245.40	4	2,865.40
5	1,488.00	5	3,513.00
6	1,730.60	6	4,160.60
7	1,973.20	7	4,808.20
8	2,215.80	8	5,455.80
9	2,458.40	9	6,103.40
10	2,701.00	10	6,751.00
11	2,943.60	11	7,398.60
12	3,186.20	12	8,046.20
13	3,428.80	13	8,693.80

14	3,671.40	14	9,341.40
15	3,900.00	15	9,975.00
16	4,125.00	16	10,605.00
17	4,350.00	17	11,235.00
18	4,575.00	18	11,865.00
19	4,800.00	19	12,495.00
20	5,025.00	20	13,125.00
21	5,250.00	21	13,755.00
22	5,475.00	22	14,385.00
23	5,700.00	23	15,015.00

[1] Included in the amounts above are Tuition, Designated Tuition, Institutional Services Fee, Intercollegiate Athletic Fee, Student Service Fee, Medical Fee, Student Center Fee, and Recreational Sports Fee.

Tuition and Fees Per Summer Session - RN to BSN

Summer 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	498.80	1	903.80
2	722.60	2	1,532.60
3	946.40	3	2,161.40
4	1,170.20	4	2,790.20
5	1,394.00	5	3,419.00
6	1,617.80	6	4,047.80
7	1,841.60	7	4,676.60
8	2,065.40	8	5,305.40
9	2,289.20	9	5,934.20
10	2,513.00	10	6,563.00
11	2,736.80	11	7,191.80
12	2,960.60	12	7,820.60

[1] Included in the amounts above are Tuition, Designated Tuition, Institutional Services Fee, Intercollegiate Athletic Fee, Student Service Fee, Medical Fee, Student Center Fee, and Recreational Sports Fee.

Explanation of Fees

The following information is not intended to be comprehensive and is subject to change. Tuition, fees, and charges are subject to change by action of the State Legislature or by action of the Board of Regents of The Texas State University System. The following tuition, fees, and charges information should be used only as a guideline for estimating costs. For more information, review SHSU's Cost of Attendance (https://www.shsu.edu/dept/financial-aid/cost/). For clarification of any matter relating to payment or refund of tuition, fees, charges, and deposits, contact the office or administrative unit from which the charge or refund originated.

Tuition and Designated Tuition: Resident students pay $50 tuition per semester credit hour during academic year 2025-26 and $50 tuition per semester credit hour during academic year 2026-27. Nonresident students (out-of-state and international) pay $455 tuition per semester credit hour during academic year 2025-26 and $460 per semester credit hour during academic year 2026-27. The Texas Higher Education Coordinating Board calculates each year the nonresident tuition. Students enrolled in the same course for the third or more time will be charged a higher rate up to the non-resident tuition rate for the hours associated with the course even if the student normally qualifies for in-state tuition. Resident students who reach the “excessive hour limit” will be charged a set rate per hour (see Tuition for Excessive Undergraduate Hours (p.) within this chapter for further details). In addition, designated tuition is charged at the rate of $194 per semester credit hour for academic year 2025-26 and $194 per credit hour for academic year 2026-27.

Institutional Services Fee: The institutional services fee is charged at a rate of $80.00 per semester credit hour for academic year 2025-26 and at a rate of $80.00 per semester credit hour for academic year 2026-27. The fee funds critical support services and infrastructure which allow for continued support of existing services and operations and allows for expansion of programs and services.

Student Service Fee: The student service fee is $17.60 per semester credit hour for fall and spring ($8.80 per summer semester) for academic year 2025-26 and academic year 2026-27 (not exceeding $250 per semester and $125 per summer session). The fee supports the Intramural Program, the Student Life Support Programs, and the Extramural Programs. The fee provides admission to athletic events at Sam Houston State under the auspices of the Department of Athletics.

Student Center Fee: The student center fee is required at the rate of $100 per semester ($100 per summer session) for academic year 2025-26 and academic year 2026-27 and is used to fund the Lowman Student Center programs and activities.

Recreational Sports Fee: Legislative action authorizes a recreational sports fee not to exceed $100 per semester for academic year 2025-2026 and academic year 2026-27. It may be used to purchase equipment for and/or construct, operate, maintain recreational sports facilities and programs.

Medical Fee: A fee of $75 per semester is charged for academic year 2025-26 and academic year 2026-27. This fee covers services at the Student Health Center.

Intercollegiate Athletic Fee: A fee of $20 per semester credit hour ($10 per summer semester credit hour) for academic year 2025-26 and academic year 2026-27. This fee will be used to support Intercollegiate Athletic programs.

Special Fees:

Fee	Amount
Audit Fee (per course)	$50
Distance Learning (per semester credit hour for courses designated as online courses)	$101
Distance Learning Fee for RN to BSN Students (per semester credit hour)	$50
Laboratory Course Fee (per course)	$8
College of Science & Engineering Technology Lab Fee (per course)	$16
Music Fee for Individual Instruction (per course with suffix of “x”):	
1 semester credit hour course	$30
2 semester credit hours course	$60
3 semester credit hours course	$75
4 semester credit hours course	$75
Program Fees	
College of Business Administration (per semester credit hour) academic year 2024-25	$8
College of Business Administration (per semester credit hour) academic year 2025-26	$8
Engineering Technology Fee (per semester credit hour) academic year 2024-25	$8
Engineering Technology Fee (per semester credit hour) academic year 2025-26	$8
Nursing Fee (per semester)	$855
PGMA Fee (annually in Fall semester)	$2400

The Woodlands Center Fee (Passed through the Board as the University Center Fee)**:** Classes provided at The Woodlands Center have an additional fee of $75 per semester credit hour for academic year 2025-26 and for academic year 2026-27.

Program Fees

College of Business Administration: This fee is charged at a rate of $8 per semester credit hour for all enrolled credit hour for academic year 2025-26 and at a rate of $8 per semester credit hour for academic year 2026-27. This fee is charged to students who are majoring in programs within the College of Business Administration.

Engineering Technology Fee: This fee is charged at a rate of $8 per semester credit hour for all enrolled credit hour for academic year 2025-26 and at a rate of $8 per semester credit hour for academic year 2026-27. This fee is charged to students who are majoring in programs within the Department of Engineering Technology.

College of Science and Engineering Technology: This fee is charged at a rate of 50.00 per semester for academic year 2025-26 and at a rate of 50.00 per semester for academic year 2026-27. This fee is charged to students seeking a Bachelor of Arts (BA) or Bachelor of Science (BS) degree in the College of Science and Engineering Technology.

Tuition for Excessive Undergraduate Hours

The Texas Education Code states that an institution of higher education, under specific conditions, **may charge** a resident undergraduate student a higher tuition rate than the rate charged to other resident undergraduate students. The higher tuition rate may not exceed the rate charged to nonresident undergraduate students.

- For students who enrolled for the first time in a Texas public institution of higher education from the 1999 fall semester through the 2006 summer semester.

The higher tuition rate may be charged to an undergraduate student who is classified as a Texas resident for tuition purposes and who before the semester or other academic session begins has **previously attempted** at least **45 semester credit hours** above the number of semester credit hours required for completion of the degree program in which the student is enrolled.

- For students who enrolled for the first time in a Texas public institution of higher education beginning with the 2006 fall semester and thereafter.

The higher tuition rate may be charged to an undergraduate student who is classified as a Texas resident for tuition purposes and who before the semester or other academic session begins has **previously attempted** at least **30 semester credit hours** above the number of semester credit hours required for completion of the degree program in which the student is enrolled.

The following **are not** counted for purposes of determining whether the student exceeds the 45/30 semester credit hour limit:

1. semester credit hours earned by the student before receiving a baccalaureate degree that has been previously awarded to the student;
2. semester credit hours earned by the student by examination or any other procedure by which credit is earned for which tuition was not charged;
3. hours from remedial and developmental courses, workforce education courses, or other courses that would not generate academic credit that could be applied to a degree at the institution if the course work is within the 27-hour limit at two-year colleges and the 18-hour limit at general academic institutions; and
4. semester credit hours earned at a private institution or out-of-state institution.

Residence Classification for Tuition Purposes

The Texas Legislature and the Texas Higher Education Coordinating Board (https://www.highered.texas.gov/) establish the rules and regulations for determining residence classification. These rules are subject to revision by the legislature and the Texas Higher Education Coordinating Board. Rules for Texas residency classification for University tuition are different from residency rules for voting, obtaining a Texas driver's license, or tax purposes. The deadline to update a residency status is the census date (Academic Calendar Q-drop day (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html)) of each semester.

An individual's initial residency classification is determined based on information from his or her admission application. Texas law classifies each person who applies for admission to a Texas public college or university as:

- A resident of Texas;
- A nonresident; or
- A foreign (international) student.

A nonresident student may qualify to pay in-state tuition by meeting the requirements of a tuition waiver. Current tuition waiver options include but are not limited to

1. the student or his/her spouse or parent is a member of the U.S. Armed Forces and their home of record is Texas;
2. the student or his/her spouse or parent is employed at least half-time by an institution of higher education in Texas as a teacher or professor;
3. the student or his/her spouse or parent has a teaching or research assistantship at any Texas institution of higher education on at least a half-time basis;
4. the student holds a competitive scholarship (https://www.shsu.edu/dept/academic-affairs/documents/aps/850822%20Competitive%20Academic%20Scholarships.pdf) awarded by Sam Houston State University of at least $1,000; or
5. the student or student's family has been transferred to Texas by a company in keeping with the state's Economic Development and Diversification Program.

By state law, the student has the responsibility of registering under the proper residence classification. For more information concerning the rules and regulations for determining Texas residence classification, visit residency (https://www.shsu.edu/admissions/residency/) or contact:

Residency Classification Officer
Sam Houston State University
Box 2418
Huntsville, Texas 77341-2418
(936) 294-1059

- Payment Information (p. 110)
- Financial Responsibility (p. 110)
- Payments (p. 110)
- Installment Payment Plan (p. 110)
- Nonpayment of Tuition and Fees (p. 110)
- Collections for Nonpayment (p. 110)
- Returned Check Policy (p. 110)

Payment Information

Financial Responsibility

Tuition and Fees: Students must pay all tuition and fee balances in full by the applicable semester deadline established by the University. Failure to timely pay balances owed or make arrangements for installment payments may result in the student being unenrolled and dropped from course registrations. Payment dates will be published on the Student Account Services (Cashiers) website at https://www.shsu.edu/dept/cashiers/due-dates (https://www.shsu.edu/dept/cashiers/due-dates/).

Payments

Payments made for registration purposes may be made by cash, cashier's check, personal check, or money order in the Student Account Services in Estill Classroom building, room 103. All payment items are accepted subject to final payment. Online payment options include E-Check, International Wire, Visa, MasterCard, American Express, Diner's Club, China Union, JCB, or Discover.

Installment Payment Plan

Sam Houston State University may offer students the option to pay tuition and fees in full or by installment for the fall, spring, and summer semesters of each academic year in accordance with applicable statutes and regulations, including Tex. Educ. Code §§ 54.007 and 54.0071 and The Texas State University System Rules & Regulations. Installment payment plan terms will be published on the Student Account Services (Cashiers) Office website at https://www.shsu.edu/dept/cashiers/payment-plan (https://www.shsu.edu/dept/cashiers/payment-plan/).

It should not be assumed by the student that the University will disenroll (drop their class schedule) them from their courses due to not meeting payment requirements. A student who discontinues going to class without officially resigning from the University will be subject to the grade of "F" in each course and will be financially responsible any university charges.

STATUTORY WARNING: A STUDENT WHO FAILS TO MAKE FULL PAYMENT OF TUITION AND MANDATORY FEES, INCLUDING ANY INCIDENTAL FEES, BY THE DUE DATE MAY BE PROHIBITED FROM REGISTERING FOR CLASSES UNTIL FULL PAYMENT IS MADE. A STUDENT WHO FAILS TO MAKE PAYMENT PRIOR TO THE END OF THE SEMESTER OR TERM MAY BE DENIED CREDIT FOR WORK DONE THAT SEMESTER OR TERM.

Nonpayment of Tuition and Fees

All Balances: If a student fails to meet end-of-term payment requirements, the University may prohibit the student from enrolling in future semesters until the student's balance is paid in full. In addition, the University may pursue internal, or external debt collection as described our Past Due Balances web page at https://www.shsu.edu/dept/sfs/pastdue.html.

Students who pay fees with a returned item may suffer the above sanctions as well as those detailed in the following section.

Collections for Nonpayment

Nonpayment by the end of the semester may result in transfer of the student's account to a contracted collection agency and assessment of a collection fee of up to 30 percent of the outstanding balance. The University may also choose to litigate an account on advice of University legal counsel. Should an account be litigated, the student will be responsible for all litigation expenses including attorney's fees and court costs. Accounts that are referred to a contracted collection agency may also be reported to credit bureaus.

Returned Item Policy

A returned item is defined as a payment tender returned to the University rightfully unpaid due to no fault of the bank or the University. The item may be paid by the student, or the item may be paid on the student's behalf by a spouse, guardian, friend or sponsor.

The University reserves the right to refuse credit card and personal checks, including E-Checks, from any student who had any of the fore-mentioned items returned.

Each returned item is subject to a $25 processing fee. Students have 10 days from the date on which notice is sent from the Student Financial Services Office in which to pay the returned item and the resulting processing fee or inform the Student Financial Services Office of their intent. Thereafter, the student **may be resigned** from the University. (The student should not assume that he/she will be resigned. If the student discontinues going to class without officially resigning from school, he/she will be subject to the grade of F.) Students who have been resigned are eligible for reinstatement upon redemption of such item(s), plus the resulting processing fee(s) and the payment of a reinstatement charge of $50. A student who fails to make payment prior to the first day of final exams will not receive credit for the work done that semester and will not be allowed to register for future semesters until the delinquent amount is paid. The student may also lose their class schedule for future enrolled semesters. In addition, the

items may be referred to the District Attorney of Walker County for prosecution and collection. Past due accounts are referred to a credit reporting company.

Students will be given the opportunity to be heard regarding any special circumstances. Such circumstances will be given full and fair consideration, and exceptions to the returned check policy may be granted by the Office of Student Financial Services or by a delegated employee, based on the evidence presented.

Refund Information

- Tuition and Fees Refund Policy (p. 111)
- Dropping Courses (p. 111)
- Resignations/Withdrawals (p. 111)
- Tuition and Fee Refund Schedule (p. 112)

Tuition and Fees Refund Policy

A student enrolled at Sam Houston State University (SHSU) may receive a refund of tuition and fees as a result of dropping courses or resigning from the university, as indicated in the following schedules.

Refunds and credits from one department will be applied to any other outstanding balances in other departments. Any remaining refund will be sent to the selected refund preference with BankMobile Disbursements, a technology solution powered by BMTX, Inc. The university may refund tuition and fees paid by a sponsor, donor, or scholarship to the source rather than directly to the student who has withdrawn if the funds were made available to the university.

Refund policies were established by Senate Bill No. 604 of the 65th Legislature and adopted by the Board of Regents, Texas State University System, in August of 1977 and by the applicable federal regulations dealing with first-semester financial aid students.

Dropping Courses

A student who drops one or more courses for any given term but remains enrolled in at least one course for the remainder of the semester as a student at this university may be eligible for refunds. There is a 100% refund (does not apply to students dropping to "0" hours) for dropping courses within the first 12 class days of fall, spring, and summer terms. Drops must be processed by 11:59 p.m. on the day of the deadline to receive a refund if courses have been paid in full. Students cannot drop their last course. A resignation must be submitted if dropping their only course for the term.

Students may drop courses online without the grade of "Q" until the census day of the term. See Add, Drop and Resignation Deadlines (https://www.shsu.edu/dept/registrar/students/registration/add-drop-resignation-deadlines.html).

Osteopathic Medical Students:

Students associated with the College of Osteopathic Medicine will be registered in course blocks required for promotion to the next semester. Osteopathic medical students are not permitted to drop individual courses that are a part of these blocks.

Fall, Spring, and Summer Terms

Date	Refund %
First 12 class days	100%
After 12th class day	None

NOTE: Class days are university class days, not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus courses as indicated in the Academic Calendar.

Resignations/Withdrawals

Deadlines and dates may be found on the Add, Drop, and Resignation Deadlines webpage (https://www.shsu.edu/dept/registrar/students/registration/add-drop-resignation-deadlines.html).

A resignation is a withdrawal from all courses and becomes effective on the date it is received by the Registrar's Office. The student is responsible for clearing all debts owed to the university before any potential refund is issued.

A resignation will not be allowed if a grade has been earned or a final has been taken.

Students who fail to officially resign from the university will receive a grade of "F" for each course in which they are enrolled. If a student is enrolled in only one course they must resign. See Academic Policy Statement 990407 Student Resignations (https://shsu.edu/dept/registrar/students/registration/documents/990407%20Student%20Resignations-%20academic%20affairs%20policy.pdf) for more information.

Students receiving financial aid who resign, may be responsible for the repayment of certain types of financial aid received during the term. For more information, view the Return of Title IV Funds Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/TIVReturn.pdf). Also, review

the Satisfactory Academic Progress Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf) to better understand how this could impact future aid eligibility.

NOTE:

- A resignation will withdraw a student from all registered courses in the entire term. A student cannot resign from a part of term if a grade has been earned in another part of term. Ex. If a student completes Summer I and is registered for Summer II, they will not be permitted to resign from Summer II.
- If this is your first-semester attending SHSU and you are resigning prior to the Census Day (12th Class day for Fall, Spring, Summer), a new admissions application and non-refundable application fee through ApplyTexas.org are required. If you have any questions, please contact the Office of Admissions at 936-294-1828 or email Admissions (admissions@shsu.edu). (admissions@shsu.edu)
- If a year or more has passed from the term of resignation, a new admissions application will be required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or email Admissions (admissions@shsu.edu).

A student who is considering resigning should visit the Resignation Information (https://www.shsu.edu/dept/registrar/students/registration/resignation-information.html) page.

Tuition and Fees Refund Schedule

Refund Schedule For Terms 10 Weeks or Greater

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day through 5th class day	80%
Day after 5th class day through 10th class day	70%
Day after 10th class day through 15th class day	50%
Day after 15th class day through 20th class day	25%
Thereafter	No refund

Refund Schedule For Terms Less Than 10 Weeks But Greater Than 5 Weeks

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day through 3rd class day	80%
Day after 3rd class day through 6th class day	50%
Thereafter	No refund

Refund Schedule For Terms Up To 5 Weeks

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day	80%
2nd class day	50%
3rd class day and thereafter	No refund

NOTE:

- Class days are university class days, not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus courses as indicated in the Academic Calendar.
- Once a class day ends, any refund will be calculated using the subsequent refund percentage. (Example: If a resignation is received on the weekend, it will be calculated using the refund percentage for the following class day, not the proceeding class day.) The student's last date of attendance/engagement in the course may be used for determining any refund.

The above refund schedules assume all fees have been paid in full. A different schedule applies to installment payment plan participants. Therefore, it is possible that a student enrolled in an installment payment plan could owe **more** in tuition and fees than already collected by the university.

Students who receive Title IV aid and resign on or before completing 60% of the semester will be required to repay the percentage of unearned financial aid according to the federal "Return to Title IV Aid" formula derived from the 1998 Reauthorization of the Higher Education Act. Students who receive Title IV aid should contact the Financial Aid Office (https://www.shsu.edu/dept/financial-aid/) for specifics.

Repayments are to be returned to lenders and/or program accounts in the following statutorily specified order provided the student has received funds through the program:

1. Unsubsidized Federal Stafford Loan
2. Subsidized Federal Stafford Loan
3. Federal Perkins Loans
4. Federal PLUS Loans
5. Other federal, state, private or institutional sources of aid
6. The student

More details regarding the Return to Title IV Aid policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/TIVReturn.pdf) may be obtained through the Financial Aid (https://www.shsu.edu/dept/financial-aid/) website or by visiting the Financial Aid Office located on the 2nd floor of the Estill Building.

Financial Aid & Scholarships Office

- Financial Aid and Scholarships Office (p. 113)
- Types of Financial Aid (p. 113)
- Student Employment (p. 114)
- Resignations/Withdrawals (p. 114)
- Satisfactory Academic Progress (p. 114)
- Veteran's Benefits Assistance (p. 114)
- American Opportunity Tax Credit and Lifetime Learning Tax Credit (p. 115)
- CPOS Policy (p. 115)

Financial Aid and Scholarships Office

The Financial Aid and Scholarships Office at Sam Houston State University is available to assist students in achieving educational goals even when their personal or family finances are limited. While the student and/or their immediate family are primarily responsible for financing an education, the University recognizes its role in making a maximum effort to acquire additional funds for qualified students through a variety of aid programs. Specific financial aid programs the University administers are listed below.

For information on programs, application requirements, Satisfactory Academic Progress (SAP), student budgets, priority dates, links to the Free Application for Federal Student Aid (FAFSA) and all forms necessary to complete the application process visit our website Financial Aid & Scholarships (https://www.shsu.edu/dept/financial-aid/).

Types of Financial Aid

Grants

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (SEOG)
- Texas Public Educational Grant (TPEG)
- **T**oward **EX**cellence, **A**ccess and **S**uccess Grant (TEXAS grant)
- Teacher Education Assistance for College and Higher Education Grant (TEACH)
- Bearkat Grant

Loans

- College Access Loan
- Federal Direct Loan Program
- Parent Loan for Undergraduate Students (PLUS)

Semester Loans

- Bearkat Payment Extension Loan
- Short-term Loan for Books

Applications for Semester Loans may be completed on-line through the Financial Aid menu option on SamWeb. Semester loans are short term loans with a maximum loan period of 90 days.

Scholarships

Sam Houston State University offers scholarships for students who excel in academic achievement and leadership. Using a competitive process, awards are based on either merit or financial need. Some awards are competitively selected on the basis of both merit and financial need.

Most academic scholarships offered by SHSU can be applied for using a single application, which can be found on MySam under the Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) page. The application period begins early September for each upcoming academic year. Students must be admitted to Sam Houston State University and have an active computer services account.

Student Employment (Work Study)

Employment opportunities can be accessed online through PeopleAdmin. Students will need to create an account if they do not have one. Instructions can be found on the Human Resources website (https://www.shsu.edu/dept/hr/apply.html).

- Federal College Work-Study Program
- Texas College Work-Study Program

Resignations/Withdrawals

Students who receive Title IV financial aid and withdraw or drop all courses during the semester must be aware of the impact on their financial aid. Federal Title IV aid includes Pell Grant, Supplemental Educational Opportunity Grant, Subsidized/Unsubsidized Stafford Loans, and Direct PLUS Loans. It is recommended that students visit with their Financial Aid Counselor prior to withdrawing or dropping courses.

Title IV aid recipients must be continuously enrolled for at least 60% of the semester for which aid is disbursed to retain all of the financial assistance issued for that semester. After the 60% point, students are considered to have earned 100% of the Title IV funds disbursed. Any student who resigns prior to completing 60% of a semester must repay any unearned portion of their federal financial aid.

The amount of the repayment depends on the number of days attended during the semester, the type and amount of financial aid received and the total amount of institutional charges.

Earned federal financial aid is prorated according to the percentage of the semester completed. The earned aid is determined by the amount of total aid received minus the amount of unearned aid.

- Direct Unsubsidized Loan
- Direct Subsidized Loan
- Direct PLUS Loan (Parent Loan for Dependent Students)
- Direct GRAD PLUS Loan (Graduate Student)
- Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- TEACH Grant

Satisfactory Academic Progress (SAP)

Requirements must be met to remain eligible for Federal Aid. These requirements are known as Satisfactory Academic Progress (SAP). (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf)

Minimum requirements for undergraduate students are:

- A minimum SHSU grade point average (GPA) of 2.0
- Complete 67% of all attempted hours at SHSU and other institutions (transfer hours)
- No more than 180 attempted hours

For information, view the complete SAP Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf).

Veteran's Benefits Assistance

For information relating to Veteran's Benefits Assistance, visit with the School Certifying Officials located in the Estill Building, Suite 228 or the VETSUCCESS counselor in the Veteran's Resource Center, located in the Academic Building III, Suite 110. Assistance is available for those seeking to use the following:

- Montgomery GI Bill® (MGIB) - GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official U.S. Government Website (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill.&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0%2FN661cHeanOl2BeQ36GAoKTorfcqcC6P5RIzMrqkL4%3D&reserved=0) at https://www.benefits.va.gov/gibill (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2cu8vKUFxp1UnqO93EIHZr2mTgCO2O9bqxDq%2Bd2NSaQ%3D&reserved=0)

- Chapter 30 - Veteran status
- Chapter 31 – Veteran Readiness and Employment
- Chapter 33 – Post 9/11 GI Bill®
- Chapter 35 - Dependent
- Chapter 1606 – Reservist
- Hazlewood Act

American Opportunity Tax Credit and Lifetime Learning Tax Credit

Tax payers may be eligible to claim the American Opportunity Tax Credit against their federal income taxes. Depending on the family and student financial situation, the credit that may be claimed varies. It may be as much as $2,500 (100% of first $2,000 and 25% of second $2,000 of qualified tuition and related expenses such as tuition, fees and course materials).

In addition, the Lifetime Learning Credit may be available for up to $2,000 per family for qualified tuition and related expenses. Congress has established that the Lifetime Learning Tax Credit begins for payments made after July 1, 1998.

These tax credits may reduce the amount of federal income tax one is required to pay. These tax credits are reviewed by the federal government periodically, therefore, annual referral to the IRS website is recommended.

CPOS Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/cpos.pdf)

Per Title IV regulations, a student cannot receive federal aid for coursework that does not lead to the completion of their degree. This is stated in CFR 34 668.32 (a)(1)(i) which defines “a regular student as one that is enrolled or accepted for enrollment at an institution for the purpose of obtaining a degree, certificate, or other recognized educational credential offered by that institution.” In summary, Title IV funds are intended to pay for courses that go towards a student’s program of student to assist them in obtaining an academic credential.

Licensure and Certification Disclosure

General Disclosure

Notice to students pursuing programs that may lead to a professional license or certification required for employment.

The identified programs may lead to a professional license or certification that is required for employment. Professional licensure/certification requirements vary from state to state, which may affect a student's ability to apply for a professional license/certification upon the completion of the program. The U.S. Department of Education regulation, *34 CFR 668.43 (a) (5) (v)*, requires an institution to disclose whether the program will fulfill educational requirements for licensure or certification for each state. The administrative departments that offer the programs have made the following determination regarding their curriculum.

We recommend students contact the appropriate state licensing agency in their state or the state where they intend to work to seek the most up-to-date information about state licensure/certification requirements

Bachelor of Fine Arts, Major in Animation with Teaching Certification (p. 161)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Graphic Design with Teaching Certification (p. 168)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Photography with Teaching Certification (p. 175)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Studio Art 2D Track with Teaching Certification (p. 183)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Studio Art 3D with Teaching Certification (p. 191)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

BFA, Major in Theatre with Teacher Certification (http://catalog.shsu.edu/colleges-academic-departments/arts-and-media/theatre-musical/bfa-theatre-with-teaching-certification/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: Choral (p. 291)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: Choral/Piano (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-choral-piano/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: Instrumental (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-instrumental/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: String (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-string/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music Therapy (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-therapy/)

Certification
Meets: All states and territories
Does Not Meet: None
A Determination Has Not Yet Been Made: None

Bachelor of Business Administration, Major in Business Administration with PGM Concentration (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/business-administration-and-entrepreneurship/bba-general-business-administration-pgm-concentration/)

Certification
Meets: All states and territories
Does Not Meet: None
A Determination Has Not Yet Been Made: None

Undergraduate Programs

Bachelor of Science, Major in Education, EC-6 Core (p. 507)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Core: 4+1 MED in Teaching & Learning (p. 510)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Bilingual Core (p. 515)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Bilingual Core: 4+1 MED in Teaching & Learning (p. 518)

Certification

Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Special Education Core (p. 523)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 SPED Core: 4+1 MED in Teaching & Learning (p. 526)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 Core (p. 532)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Core, 4+1 MED in Teaching & Learning (p. 535)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 ELAR (p. 540)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 ELAR: 4+1 MED in Teaching & Learning (p. 543)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 Mathematics (p. 548)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Mathematics: 4+1 MED in Teaching & Learning (p. 551)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 Science (p. 556)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Science: 4+1 MED in Teaching & Learning (p. 559)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Social Studies (p. 564)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Social Studies: 4+1 MED in Teaching & Learning (p. 567)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3 (p. 572)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3: 4+1 MED in Teaching & Learning (p. 574)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3 Bilingual (p. 579)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3 Special Education (p. 583)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Double Major in Education and English (p. 590)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Double Major in Education and Mass Communication: Journalism (p. 592)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Double Major in Education and Spanish (p. 595)

Certification
Meets: Only Texas

Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Composite Science (p. 597)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and History (p. 602)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Interdisciplinary Agriculture (p. 607)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Kinesiology (p. 611)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Mathematics (p. 615)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Graduate Programs

Master of Arts in Applied Behavior Analysis (p. 1589)

Licensure
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Certification
Meets: All states
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All territories

Master of Education in Literacy Instruction (p. 1592) (only with Texas Reading Specialist)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Master of Education in Teaching and Learning (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/teaching-and-learning-med/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Master of Library Science (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/library-science-and-technology/library-science-mls/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Graduate Certificate in Bilingual (Spanish) Educational Diagnostician (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/bilingual-spanish-educational-diagnostician-certificate/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Educational Diagnostician Certification (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/educational-diagnostician-certification/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Reading Specialist Certification (Post Graduate) (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/reading-specialist-certification/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

School Librarian Certification (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/library-science-and-technology/school-librarian-certification/)

Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Teacher Certification (p. 1610)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Major in Interior Design (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/ba-interior-design/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

Bachelor of Science, Major in Food Science and Nutrition (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/bs-food-science-nutrition/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

NOTE: Completing an ACEND-accredited bachelor's program alone is not sufficient to qualify an individual for licensure or certification as a dietitian in any state. In addition to earning a bachelor's degree and meeting other state-specified requirements, individuals must also complete a supervised practice experience and pass a licensing exam. Consistent with current requirements of the Registered Dietitian credential, some states may also

require initial dietitian licensure applicants to hold a master's degree. Statutes, regulations and policies of state licensing agencies are subject to change; this information only reflects published statutes and regulations as of July 1, 2024. Individuals should review their state's licensing statutes and regulations to understand the specific requirements to obtain a dietetics or dietitian license. More information about state licensure and certification can be found at this link: State Licensure (https://www.cdrnet.org/LicensureMap/).

Bachelor of Science, Major in Health Sciences: 3+2 Master of Science in Athletic Training (MSAT) (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/public-health/bs-health-sciences-and-msat-athletic-training/)

Licensure/Certification
Meets: All states and territories
Does Not Meet: None
A Determination Has Not Yet Been Made: None

Bachelor of Science, Major in Interior Design (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/bs-interior-design/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

Bachelor of Science, Major in Nursing (BSN) (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/nursing/bsn-nursing/)

Licensure
Meets: All states, excluding American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands

LVN to BSN (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/nursing/lvn-bsn/)

Licensure
Meets: All states, excluding American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands

Graduate Programs

Master of Science in Dietetics (https://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/human-sciences/dietetics-ms/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

NOTE: Completing an ACEND-accredited academic program alone does not qualify an individual for licensure or certification as a dietitian in any state. Individuals should review their state's licensing statutes and regulations to understand the specific requirements, including supervised practice and examinations, needed to obtain a dietetics license. More information about state licensure and certification can be found at this link: State Licensure (https://www.cdrnet.org/LicensureMap/).

Undergraduate Programs

Bachelor of Arts, Double Major in Education and Spanish (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-spanish/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Graduate Programs

Doctor of Philosophy in Clinical Psychology (https://catalog.shsu.edu/graduate-and-professional/college-departments/humanities-social-sciences/psychology-philosophy/clinical-psychology-phd/)

Licensure

Meets: All states, excluding California, Michigan, New Jersey, and New York
Does Not Meet: California, Michigan, New Jersey, and New York
A Determination Has Not Yet Been Made: N/A

Master of Arts in Clinical Psychology (https://catalog.shsu.edu/graduate-and-professional/college-departments/humanities-social-sciences/psychology-philosophy/clinical-psychology-ma/)

Licensure
Meets: All states, excluding California, Michigan, New Jersey, and New York
Does Not Meet: California, Michigan, New Jersey, and New York
A Determination Has Not Yet Been Made: N/A

Specialist Degree in School Psychology (https://catalog.shsu.edu/graduate-and-professional/college-departments/humanities-social-sciences/psychology-philosophy/specialist-dgree-school-psychology/)

Licensure
Meets: All states, excluding California, Michigan, New Jersey, and New York
Does Not Meet: California, Michigan, New Jersey, and New York
A Determination Has Not Yet Been Made: N/A

Doctor of Osteopathic Medicine (https://catalog.shsu.edu/graduate-and-professional/college-departments/osteopathic-medicine/osteopathic-medicine-do/)

Licensure/Certification
Meets: All states and territories
Does Not Meet: N/A
A Determination Has Not Yet Been Made: N/A

Doctor of Osteopathic Medicine and Master of Public Health (https://catalog.shsu.edu/graduate-and-professional/dual-degrees/do-osteopathic-medicine-and-mph-public-health/)

Licensure/Certification
Meets: All states and territories
Does Not Meet: N/A
A Determination Has Not Yet Been Made: N/A

Bachelor of Science, Major in Agricultural Business with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-business-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-engineering-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Animal Science with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-animal-science-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Plant and Soil with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-plant-soil-sciences-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A

A Determination Has Not Yet Been Made: All states and territories, excluding Texas

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Academic Support Services

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Academic Success Center

The Academic Success Center offers a variety of academic support programs for SHSU students. These services include CRLA-certified peer tutoring programs for writing, math, core science, business, world languages, and more.

The ASC provides writing, reading, and world language support offering one-on-one 30-minute and 60-minute sessions. Small group sessions can also be an option pending class session and instructor. The overall goal is to help individuals become more successful, more confident writers and learners. Students may seek writing assistance ranging from freshman essays to theses and dissertations. In addition, our STEM tutoring program provides one-on-one and small group assistance for students seeking support in math, statistics, and a variety of sciences. The ASC offers study

groups in math and chemistry. Also, the ASC has embedded tutors that support students within selected courses and provide feedback to instructors on learning challenges that students may face.

The ASC offers Learning Coaches to help students balance the demands of college by guiding students through areas such as accountability, time management, study skills, note taking, test preparation, and goal setting. Our Recovery Coaches work with students on first-time academic probation or students on first-time academic suspension. Students on probation will learn academic recovery strategies and methods related to university policies, resources, communication techniques, wellness, and setting. Students on academic suspension are guided to get back to good academic standing by constructing a recovery plan that includes forming connections with instructors, reaching goals, and identifying and utilizing campus resources.

The ASC also offers workshops and seminars for academic success or academic recovery facilitated by learning coaches, recovery coaches, and professional staff.

ASC services are available for all undergraduate and graduate students currently enrolled in SHSU. Services are available in-person and virtually on main campus and at The Woodlands Center. On the main campus, the Academic Success Center (http://www.shsu.edu/centers/academic-success-center/) is located in the Newton Gresham Library. The ASC can be contacted by calling (936) 294-3680.

Advising (Student Advising and Mentoring Center)

At the Student Advising and Mentoring Center (SAM Center), we value each student as an individual and believe that advising is a shared responsibility with the student.

Our professional advisors are highly skilled experts in student development and degree planning, and we strive to provide students with personalized, holistic, success-based academic advising and support. We strongly believe in the importance of academic advising in student achievement, retention, and degree completion.

Whether you are an entering freshman, returning student, transfer student, prospective student, or a current undergraduate student, you can expect to learn about campus processes, be directed to beneficial resources for your success, and work with advisors on major exploration along with course planning to build the best university experience possible for you.

The SAM Center is located on the Huntsville campus on the first floor, Suites 170 and 190, of the College of Humanities and Social Sciences Building (CHSS). You can reach the SAM Center (samcenter@shsu.edu) by e-mailing or calling (936) 294-4444 or toll free at (866) 364-5211.

Not sure who your advisor is or how to make your appointment? Visit the SAM Center Website (https://www.shsu.edu/centers/sam-center/) to view Who is My Advisor (https://www.shsu.edu/centers/sam-center/whos-my-advisor/) and How to Get Advised (https://www.shsu.edu/centers/sam-center/how-do-i-get-advised/).

Data Analytics and Decision Support (DADS)

Data Analytics and Decision Support (DADS) is a Sam Houston State University administrative service and support unit aligned under Strategic Enrollment & Innovation (SEI). The unit is comprised of three areas: Institutional Research (IR), Data Analytics, and Data Literacy/Data Governance.

It is the mission of the **Data Analytics and Decision Support** function to collect, analyze, appraise, report and disseminate data on behalf of the University, its executive administration and its educational leaders for the purpose of promoting evidence-based reflection, planning, and action. The DADS team provides information and conducts research studies to comply with federal, state and other reporting mandates, and to assess policy, programs and special initiatives. DADS is also responsible for certifying SHSU's official student data to the Texas Higher Education Coordinating Board (THECB).

To request assistance with obtaining data, access to existing reports, and information about external data resources, SHSU employees with network access may submit a work order request/request a report (https://cherwell.shsu.edu/CherwellPortal/Employee/?_=28a7b9fa#0). A data dictionary, Data Cookbook (https://shsu.datacookbook.com/), is available to individuals with SHSU network log in credentials to review descriptions of existing reports (specifications) and data terms (definitions). SHSU uses Cognos as the reporting tool, and links to the Cognos reports are included in Data Cookbook. Various reports require prior training and/or approval, and SHSU Cognos users are encouraged to read about these details in Data Cookbook. A Data Cookbook introductory tutorial (https://www.youtube.com/watch/?v=n8VowQurkWo) is available for additional assistance. Questions about Cognos and Data Cookbook can be directed to our staff (https://www.shsu.edu/dept/institutional-research/aboutus.html) or to SHSU Information Technology Service Desk (https://www.shsu.edu/dept/client-services/service-desk.html) personnel.

Newton Gresham Library

The Newton Gresham Library (NGL) contains more than 1.2 million print books, periodicals, audio and visual materials, and microforms. Students have access to over 800,000 eBooks, online journals and newspapers, as well as streaming media resources through the Library website.
The Library also acts as a Federal and State government documents depository, providing access to almost 200,000 print and online documents. The library maintains licenses to over 400 online databases (https://shsulibraryguides.org/az.php). Books, articles, documents, and other items which are not available locally may be requested via the Library's Interlibrary Loan service.

SHSU Special Collections in the Thomason Room on the Library's 4th floor holds over 22,000 rare books and research collections on Texas, the Southwest, American authors, the Civil War, Criminal Justice, and other topics. University Archives, also located on the 4th floor of the Library, preserves the history of the campus. The Newton Gresham Library's general collection includes popular and recreational reading materials, tabletop games, a children's literature collection, a music and scores collection, and materials to help teachers create lesson plans. Creative, research and study spaces at the Library include: a music listening room, 35 individual study carrels, eight technology equipped group study and seminar spaces, a video recording studio, a copy center (including faxing, poster printing, and more), as well as a lactation room, vending machines, outdoor seating, and a Starbucks–all provided for the convenience of students and faculty.

Twenty-one librarians, twenty-nine support staff, and scores of student assistants provide reference, interlibrary loan, circulation, acquisitions, and other library services to the faculty, staff, and students of the University as well as to visiting scholars and off-campus users. Distance Learners will find librarians embedded in their online classes.#A full-time librarian provides assistance to students at The Woodlands Center , and at the College of Osteopathic Medicine. A computer lab with over 75 networked workstations is available during regular library hours, and staffed by IT@Sam. To assist library users in utilizing library materials and services, librarians developedonline guides#available on the Library's website. Librarians also provide access to information and help in using the library's resources and services to students on- and off-campus with online chat (see Ask A Librarian (https://library.shsu.edu/) on the Library's homepage), e-mail, and by phone. Two active-learning spaces have been recently completed for use in library instructional sessions, and in support of other campus teaching and training activities. Finally, the Academic Success Center (ASC)#and the First-Generation Center (https://www.shsu.edu/dept/firstgen/) are located 2nd floor of the Library, providing academic coaching, First-Year experience, peer mentoring, and tutoring services for all students.

SHSU Online

SHSU Online

Welcome to Sam Houston State University, where online and hybrid education are part of a strategic priority. A large percentage of Bearkats participate every year in SHSU's online courses and programs and if you're one of them, we are glad you are here!

SHSU Online is a department within Academic Affairs that is dedicated to empowering learners, educators, and staff by facilitating exceptional online education experiences that extend beyond the boundaries of traditional classrooms. Our mission is to enable citizens in Texas and beyond to further their education, secure meaningful employment, achieve higher earnings, and enhance their quality of life. We support all course and program modalities, including 100% online courses, Online Live, Online On-Demand, Hybrids, and Face-to-Face courses that integrate online tools to enhance the delivery of on-ground education.

Through our strategic initiatives, SHSU Online strives to provide a unified presence for online education, fund essential tools, deliver high-quality course development and instructional design, and create inclusive and accessible learning environments. We are committed to supporting YOU and the entire SHSU community in our shared pursuit of educational excellence.

To that end, SHSU Online delivers a wide-range of services for SHSU faculty, students, and staff, including:

- 24/7 Technical Support Call Center for Blackboard courses
- Faculty Certification and Development
- Instructional Design and Couse Building
- Graphic Design
- Multimedia Design
- Digital Content Development
- Educational Video Production
- Guest Lecture Recordings
- Video Hosting
- Marketing and field video production for online programs
- Video transcriptions
- Ally® for Accessibility
- Thought-Leadership, including
  - SHSU Online Newsletter
  - TSUS Annual Report
  - TSUS Faculty Development Days
  - SHSU Online Annual Conference: Digital Education Summit

We hope to connect with you through one of our services or events!

SHSU Online also actively promotes success beyond the classroom by providing many SHSU students with opportunities to develop marketable skills. We hire, train, and prepare student workers with on-the-job training and market experience in various creative and technical fields.

Contact Information

- **Phone**: 936.294.2780
- **Email**: Blackboard@shsu.edu
- **Web**: online.shsu.edu (https://online.shsu.edu/)
- 24 hours a day / 7 days a week

Technology Solutions and Support

Information Technology maintains instructional environments, including computer labs and classrooms to support faculty and students in our Bearkat learning environments. These spaces are equipped with Windows and iMac computers, up-to-date software, webcams, printers, and scanners. Additionally, a few labs have course-specific software for students to complete work outside of the classroom. View the Computer Lab website (https://www.shsu.edu/computerlabs/) for a complete list of labs and their technology equipment.

Additionally, we provide Microsoft 365 for your personal devices and wireless internet through eduroam. Simply use your SHSU credentials to access either option!

For additional questions regarding the technology available at SHSU, contact the Service Desk (mailto:servicedesk@shsu.edu).

Contact Information

Phone: 936.294.1950

Email: Service Desk (servicedesk@shsu.edu)

Location: Academic Building I, Suite 145

Testing Center

The Sam Houston State University (SHSU) Testing Center provides institutional and national testing opportunities to students and community members in an atmosphere that enables examinees to perform to the best of their abilities. This atmosphere relies on test administration practices that (1) adhere to nationally recognized professional testing standards and government regulations, (2) maintain the integrity of the testing process by incorporating ethical standards and security measures, and (3) treat all examinees in a professional, yet personable manner. The Sam Houston State University Testing Center adheres to the National College Testing Association (NCTA) Professional Standards and Guidelines and currently offers the following exams unless noted otherwise:

Entrance Exams

ATI TEAS: The Test of Essential and Academic Skills (TEAS) is used as part of the admissions process by Nursing and Allied Health schools nationwide. Additional information may be obtained by visiting the Testing Center (http://www.shsu.edu/centers/testing-center/) or TEAS (http://www.atitesting.com/).

TOEFL: The Test of English as a Foreign Language (TOEFL) may be required of international students for admittance into the university. The TOEFL exam measures the ability of non-native English speakers to communicate in an academic setting. For more information, visit the Testing Center (https://www.shsu.edu/centers/testing-center/) or TOEFL (http://www.ets.org/toefl/). Additional information may also be obtained by contacting Admissions (http://www.shsu.edu/admissions/).

Placement Exams

ACCUPLACER: The ACCUPLACER test is a placement exam offered at SHSU for evaluating a student's performance in reading, writing, and mathematics. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or ACCUPLACER (https://accuplacer.collegeboard.org/students/).

ACCUPLACER - ESL: The ACCUPLACER English as a Second Language (ESL) test is designed to support the placement of English language learners into English language courses so that they may receive appropriate and targeted levels of instruction. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or ACCUPLACER (https://accuplacer.collegeboard.org/students/).

TSI ASSESSMENT 2.0: The Texas Success Initiative Assessment (TSIA2) is a placement exam offered at SHSU to assess test takers' readiness for college-level coursework in the general areas of English language arts and reading (ELAR) and mathematics. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/)or TSI Assessment (https://accuplacer.collegeboard.org/students/prepare-for-accuplacer/tsia-texas-success-initiative-assessment/).

Credit by Exam

ACT/SAT English Credit: Sam Houston State University may award credit for freshmen English courses based on high ACT or SAT test scores on the English section (ACT) or the Reading and Writing section (SAT). Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions

Office. The ACT and SAT exams are not offered at the Testing Center; however, policy information about the ACT/SAT English Credit can be located on the Testing Center website.

Advanced Placement Program (AP): Sam Houston State University may award college credit for the Advanced Placement Examinations based on the score(s) received. Advanced Placement exams are given at the high school level. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. AP exams are not offered at the Testing Center; however, policy information can be located on the Testing Center and AP Program websites.

Avant Assessments: Avant STAMP (STAndards-Based Measurement of Proficiency) measures language proficiency in Reading, Writing, Listening, and Speaking. Avant STAMP for American Sign Language (ASL) evaluates receptive skills (comprehension of signed ASL videos) and expressive skills (production of signed ASL). Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. For more information, visit the Testing Center (http://www.shsu.edu/testing/) or Avan (https://www.avantassessment.com/)t.

College Level Examination Program (CLEP): Sam Houston State University is a national testing center for the College Level Examination Program (CLEP). All CLEP exams may be taken at SHSU, but only the CLEP Subject Exams listed on the Testing Center website will be accepted for credit at SHSU. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. For more information, visit the Testing Center (http://www.shsu.edu/testing/) or CLEP (https://clep.collegeboard.org/).

DSST: Sam Houston State University is a national testing center for the DSST exams. All DSST exams may be taken at SHSU, but only the DSST exams listed on the Testing Center website will be accepted for credit at Sam Houston State University. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. For more information, visit the Testing Center (http://www.shsu.edu/testing/) or DSST (http://getcollegecredit.com/).

International Baccalaureate Program (IB): Sam Houston State University recognizes the International Baccalaureate program and awards credit to those students who earn the IB diploma. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by exam will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. Information on the International Baccalaureate Program may be obtained from high school counselors or by visiting the Testing Center (http://www.shsu.edu/testing/) or International Baccalaureate (http://www.ibo.org/).

Departmental Exams

The American Council on the Teaching of Foreign Languages Oral Proficiency Interview-Computer (ACTFL OPIc): ACTFL OPIc tests are used worldwide by academic institutions, government agencies, and private corporations for purposes such as academic placement, student assessment, program evaluation, professional certification, hiring, and promotional qualifications. The ACTFL OPIc is a valid and reliable means of assessing how well a person speaks a language. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or ACTFL (https://www.actfl.org/center-assessment-research-and-development/actfl-assessments/actfl-postsecondary-assessments/oral-proficiency-interview-computer-opic/).

Representative TExES: The Representative TExES tests are paper-pencil practice exams administered for the College of Education. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or by emailing edu_edprep@shsu.edu.

Graduate Exams

Graduate Management Admission Test (GMAT): The GMAT exam is designed to test skills that are highly important to business and management programs. It assesses quantitative reason, verbal reasoning, and data insight skills that are vital to real-world business and management success. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or GMAT (http://www.mba.com/us/).

Graduate Record Examinations (GRE): The GRE is used by graduate schools as one assessment indicator for comparing the qualifications of applicants who come from a variety of colleges and universities. The GRE measures verbal reasoning, quantitative reasoning, and analytical writing skills. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or GRE (https://www.ets.org/gre/).

Certification Exams

ACSM: American College of Sports Medicine offers several health fitness certification programs, each with unique programming and/or population focus. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or the American College of Sports Medicine (https://www.acsm.org/certification/get-certified/).

CERTIPORT: Certiport is dedicated to helping people succeed through certification. Certiport's globally recognized credentials are aimed at enhancing individual productivity, marketability, and value. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or Certiport. (http://www.certiport.com/)

CCE: The Center for Credentialing and Education offers a dynamic portfolio of services including credentials, assessments, and examination services to promote excellence in and expand equitable access to mental health and human development professions. The CCE offers the CPCE (Counselor Preparation Comprehensive Exam) and the NCE (National Counselor Exam) tests. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or CCE. (https://www.cce-global.org/home/)

CompTIA: CompTIA certifications are industry-leading credentials to start and grow an IT career. Entry-level IT certifications and advanced IT certifications -- such as cybersecurity -- are offered. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or CompTIA (https://www.comptia.org/certifications/4-steps-to-certification/).

Meazure Learning: Meazure Learning offers exams for the certification or licensure of professionals to assess the knowledge and skills of employees for training purposes or as a pre-employment check for potential hires. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or Meazure Learning (http://www.meazurelearning.com).

NSCA: Elevate your career in strength and conditioning and related sports science professions to new heights with a National Strength and Conditioning Association certification. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or NSCA (https://www.nsca.com/certification-overview/).

TCEQ: The SHSU Testing Center is a testing site for the Texas Commission on Environmental Quality (TCEQ) Occupational Licensing examinations. Additional information about TCEQ exams can be obtained by visiting the Testing Center (http://www.shsu.edu/centers/testing-center/)or TCEQ. (https://www.tceq.texas.gov/)

TCFP: The Texas Commission on Fire Protection offers certifications for those interested in becoming certified fire protection professionals. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or TCFP. (https://www.tcfp.texas.gov/services/certifications/)

TExES: The Texas Administrative Code (TAC) §230.21(a) mandates that all individuals seeking educator certification in the state of Texas must achieve satisfactory performance on comprehensive examinations. These assessments are designed to ensure that each educator possesses the essential content knowledge and professional expertise requisite for an entry-level position within Texas public schools. The Texas Examinations of Educator Standards (TExES) program was established to fulfill this objective. Additional information may be obtained by visiting the Testing Center (http://www.shsu.edu/testing/)or TExES. (http://tx.nesinc.com/)

State of Texas High School Diploma Test

The General Educational Development (**GED**) test is a suite of exams that test-takers can pass to earn a GED diploma/certificate. The GED provides adults with high school equivalency exams that are based on current career and college-readiness standards. The SHSU Testing Center is an authorized testing site for the GED exam. Additional information may be obtained by visiting GED (https://www.ged.com/).

Distance Education Exams

Sam Houston State University Testing Center provides proctoring services for distance education exams from other institutions and agencies. Additional information may be obtained by visiting the Testing Center (http://www.shsu.edu/testing/).

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Alumni Relations and Development

The **SHSU Alumni Association** exists to support and promote the University and represent the interest of over 140,000 alumni and friends. The alumni association is an important part of an integrated advancement effort to communicate with graduates and former students and engage them with the university.

Located in the John R. Ragsdale Alumni Center, the role of the Alumni Association has expanded significantly, becoming an integral part of the University campus community while serving as a bridge to both local and national communities. The Alumni Association's programs and activities are developed and planned in consultation with an alumni association board of directors.

The Association sponsors the annual Distinguished Alumni Gala for Distinguished Alumni, Outstanding Young Alumni and Service Award recipients, the annual Life Member Celebration, Homecoming activities, tailgate parties, regional alumni clubs and gatherings, newsletters, scholarships, student programs, and the official university class ring program. It provides opportunities for alumni to participate in community service projects, raising scholarship funds, legislative advocacy, and joining with other graduates in alumni activities across the country.

Alumni Association Life Membership is open to all graduates, former students, parents, faculty, staff, and friends of Sam Houston State. For additional information, please call (936) 294-1841 or visit Alumni Association (http://www.shsu.edu/dept/university-advancement/).

SHSU has honored its historical roots by providing students with an excellent education. We continue to be able to do this thanks to the financial support of alumni, friends, faculty and staff, parents, corporations, and foundations who are part of SHSU's powerful giving community. Gifts help bridge the gap between education costs and tuition income so that we can meet critical needs such as student scholarships, equipment, technology, and academic program enrichment.

Donors may make a gift online at SHSU Giving (https://www.shsu.edu/dept/university-advancement/donate.html). For information about providing support for the University through an annual, major, or planned gift, please contact:

University Advancement
Box 2537
Huntsville, TX 77341-2537
(936) 294-3625

Athletics

Competing at a high level in 18 NCAA Division I sports, Sam Houston State University brings the fun and excitement of intercollegiate athletics to the Huntsville campus.

The Bearkats have become a fixture on national television sports networks such as ESPN, ESPN2, and CBS Sports Network.

Sam Houston competes as a member of Conference USA, joining the league and moving up to the FBS level in 2023 after claiming the FCS National title on the gridiron in 2020. In SHSU's first year in CUSA, the Kats claimed the league's men's basketball and women's golf crowns. A year later, the Kats made their mark known in football, winning 10 games and the program's first bowl victory, taking down Georgia Southern in the 2024 R+L Carriers New Orleans Bowl.

Sam Houston has had plenty of success across the board in its time at the Division I level, winning the 2004 national title in bowling in 2014, while the baseball team has made three NCAA regionals since 2016, including advancing to the program's first-ever Super Regional in 2017. The baseball team has continued to be recognized as one of the best mid-major programs in the nation and has even recently boasted two MLB first-round draft picks with Colton Cowser selected No. 5 overall by Baltimore in 2021 and Walker Janek chosen by the Astros in the first round of the 2024 MLB Draft.

Each of the past six seasons, Sam Houston and Stephen F. Austin have played their annual "Battle of the Piney Woods" rivalry game at NRG Stadium in Houston, putting more than 25,000 fans in the seats at the NFL Texans' venue annually.

Men's intercollegiate sports at Sam Houston include baseball, basketball, cross country, football, golf, indoor track and field, and outdoor track and field. Women's sports are beach volleyball, basketball, bowling, cross country, golf, indoor track and field, outdoor track and field, soccer, softball, tennis, and volleyball.

Sam Houston student-athletes are just as successful in the classroom as on the playing field. The overall grade point average for the more than 400 Bearkat student-athletes is a mark higher than the general student population at the university.

Bearkats have been recognized as the outstanding student-athlete in their individual sports by receiving the Southland "Student-Athlete of the Year" award 26 times in the past 12 years.

Sam Houston boasts one of the finest athletic complexes in the Southwest. Home athletic events are held at Elliott T. Bowers Stadium (football), Bernard G. Johnson Coliseum (basketball, volleyball), Don Sanders Stadium (baseball), Bearkat Softball Complex (softball), Chuck and Wanda Beckner Tennis Center (tennis), Joseph Pritchett Field (soccer), and the Ron Randleman Strength and Fitness Center.

Recent additions to the athletic facilities include the major renovations of Mafrige Fieldhouse, the building of the Steele Golf Center, and the opening of the Beckner Tennis Center in the Fall of 2023. Bowers Stadium is also set to undergo its largest renovation since its opening in 1986 with a new west side press box scheduled to be completed by the beginning of the 2026 season. Each of the athletic venues is located on campus within walking distance of any of the residence halls.

Sam Houston students are admitted to all home regular season athletic events upon presentation of a current and valid Bearkat OneCard. Simply swipe your Bearkat OneCard at the designated student gates the day of the event for admission. Bearkat OneCards must be active, and students must be currently enrolled.

News, schedules, ticket information, and opportunities to watch live video of Bearkat sports events are available at SHSU Athletics (https://gobearkats.com/).

Bearkat OneCard Services

The Bearkat OneCard is the official ID card of Sam Houston State University. The OneCard is an all-in-one student ID which has been designed to be an efficient, multi-purpose card. It provides students easy access to University facilities and services. To ensure campus security, it is required that all students obtain a Bearkat OneCard for campus identification.

The Bearkat OneCard is required for:

- Meal Plans
- Bearkat Bucks (on-campus dining dollars)
- Assigned Residence Hall
- Entrance to Athletic Events
- University Sponsored Functions
- Recreational Sports Facility
- Kat Klub
- Newton Gresham Library Services
- Managing Refund Preferences
- Managing Student Payroll Preferences
- Bearkat Course
- Student Health Center
- Student Account Services (Bearkat OneCard and Cashiering Services)
- Financial Aid Office
- SAM Center (Student Advising)
- Career Services
- Campus Departmental Identification

To obtain a Bearkat OneCard students MUST:

- Have a photo taken in the Bearkat OneCard Office or request your OneCard (https://www.shsu.edu/dept/bearkatone/) online. It is mandatory to present a valid state or government issued photo ID in order to request a Bearkat OneCard.
- Have a valid and current domestic address on file with the University.
- Be currently registered for classes.

Once these steps have been completed, the Bearkat OneCard can be requested by the student. Upon receipt, the student must setup a refund preference at Bearkat OneCard (https://bearkatone.vibeaccount.com/). Students will select a refund and payroll preference online. Students have the following options for receiving refunds and payroll:

- Electronic deposit to an existing checking or savings account
- Electronic deposit to the VibeAccount

Note – Refund and Payroll preferences may be different.

The VibeAccount is an optional, internet-only, FDIC-insured checking account. Students may choose to open the VibeAccount; however, students are not required to open this optional account. Please, visit Account Fee Schedule (https://bearkatone.vibeaccount.com/studentaccount/feeschedules.do) for more information related to the terms and conditions of this account.

Student Account Services (SAS) provides assistance taking ID photos, activating cards, and providing information related to student refund and payroll disbursements. SAS also provides passport photos, specialty badges/credentials as well as assists with event tracking for campus events. Passport photos are provided to faculty, staff and students free of charge. For more information, please visit our office in the Estill Building, Suite 103, contact us by phone at (936) 294-2273, or visit Bearkat OneCard Services (https://www.shsu.edu/dept/bearkatone/).

Career Services

The Career Success Center Mission: *Preparing students for the career of their choice.*

The Career Success Center Vision: *Collaborating for Career Readiness & Connecting Students to Careers.*

The Career Success Center assists students, graduates, and alumni in their search for employment based on their interests, skills, academic preparation, and personal aspirations. Opportunities and resources are provided to assist students in learning about and developing career readiness and ultimately obtaining a rewarding career.

Specific services and resources include:

- BEARKATS GET HIRED (https://www.shsu.edu/dept/career-success-center/bearkatsgethired.html) for Student Employment, Internships, Part-time and Full-time Job Postings
- Career Exploration & Planning
- Career Readiness Roadmap
- Career/Internship Fairs
- Résumé & Cover Letter Writing Assistance
- Mock Job & Internship Interviews
- Networking/Employer Information Resources
- LinkedIn Profile Assistance
- Professional Headshots
- Career-Related Workshops/Panels
- Campus Interviews with Company Recruiters
- Reba Bock Career Closet

The Career Success Center is located in the Academic Building IV, Suite 210. You can contact the Career Success Center by calling (936) 294-1713, emailing (careersuccesscenter@shsu.edu) us or by visiting our website: Career S (https://www.shsu.edu/dept/career-success-center/)uccess Center (https://www.shsu.edu/dept/career-success-center/).

Counseling Center

Counseling Services

The SHSU Counseling Center provides individual, couples, and group therapy to students who are currently enrolled. Our mission is to provide service within the university environment that contributes to the academic success, personal growth, and positive social contribution of Sam Houston State University students. We embrace a student-oriented philosophy and we are committed to the development of the student as a whole person.

To participate in Counseling Center services you must be a currently registered student. A registered student can initiate services via phone or by walking into the office anytime between 8:30am-11am and 1pm-3:30pm. No appointment is needed for this initial appointment. During this initial 20 minute screening students will have an opportunity to discuss their presenting concerns and the clinician will match them to an appropriate counseling center service.

The SHSU Counseling Center offers a number of different options to help students enhance their well-being. Your clinician believes that some of these options may be especially helpful in meeting your own goals.

Your clinician may recommend one or more of the following service modalities:

Workshops (https://www.shsu.edu/dept/counseling/c-o-p-e-workshops.html) – Workshops are tailored to address common concern of college students. Workshops are conduced year round on stress management, anxiety, mood management, relationship success, better sleep, mindfulness and general adjustment. Workshops are offered at various times throughout the semester and require no advance registration.

Group (https://www.shsu.edu/dept/counseling/group-counseling.html) - Group therapy offers a unique opportunity to build community, explore your needs, share your experiences, offer support to others, and develop strategies to combat many different problems.

After Hours Helpline - Students can seek after hours support by speaking to one of our trained volunteers on our after hours Helpline at 936-294-4111, M-Th, 4-9pm during fall and spring semesters.

Brief One on One Counseling

Single Session – Single sessions are designed to address specific concerns in one single session. These sessions are designed to be goal oriented and solution focused.

Individual Counseling (https://www.shsu.edu/dept/counseling/individual-therapy.html) & Couples Counseling (https://www.shsu.edu/dept/counseling/couples-counseling.html) – Brief counseling sessions (45-50 minutes) provides an opportunity to work collaboratively with a clinician toward resolving matters that are systemic in nature. Counseling sessions are scheduled at various intervals (weekly, bi-weekly, monthly) based on treatment goals.

Consultation – Consultation provides an opportunity to address unique concerns related to treatment, referral, and access to resources. Consultation is a useful way to gather information and formulate next steps toward reaching one's goals. Consultation may also be used to explore ways one might be supportive to a friend or member of the university community in need of mental health services.

Case Management & Referral – Case management services can assist students who need assistance connecting with outside providers and students who need help navigating community resources.

Virtual Health Services - SHSU Counseling Center is now partnered with Timely Care to deliver a new virtual health and well-being platform for students. Through either a mobile app or your desktop, Timely Care provides 24/7 access to virtual care at no cost! Visit timelycare.com/SHSU (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Ft.e2ma.net%2Fclick%2Fxbbisj%2Fxfurfol%2Fppgdoy&data=05%7C01%7Csys003%40shsu.edu%7C35f37c34f8e344a2632e08dbe14abd96%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C638351483351532652%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=cvxz7p3Xfb5yek5WdPUX2dPjoWHegy%2B98vJG2owwniw%3D&reserved=0) or download the TimelyCare app from your app store and register with your school email address. You can then start visits from any web-enabled device – smartphone, tablet, laptop, or desktop.

The Counseling Center is located on the second floor of the Powell Student Health and Counseling Center, conveniently located next to Old Main Market. Visit or call (936) 294-1720. The Counseling Center is open Monday through Friday between 8:00 a.m. and 5:00 p.m., with additional evening hours during the Fall and Spring semesters. For more information, visit the Counseling Center's website (http://www.shsu.edu/dept/counseling/).

Dean of Students' Office

The Dean of Students' Office provides premier student and family support services and programs with a focus on student success, access, engagement, and retention. Through restorative practices, our department provides holistic student support, as well as opportunities for leadership, development, and community engagement. Our parent programs support parents, families, and supporters of students by building community, parent connection and engagement, and scholarship opportunities. To provide a safe community experience each student is responsible for compliance with the Student Code of Conduct (https://www.shsu.edu/dept/dean-of-students/student-code-of-conduct.html).

Contact Information:
Location: Lowman Student Center, Suite 210
Phone: 936-294-1785
Email: doso@shsu.edu
Web: shsu.edu/doso (https://www.shsu.edu/dept/dean-of-students/)

First-Generation Center

The SHSU First-Generation Center (FGC) exists to support student success and student access. The FGC was established on June 6, 2022 and is dedicated to helping first-generation (FG) students and their families navigate their university experience. A student is considered first-generation if neither parent nor guardian earned a bachelor's degree in the United States. Approximately 52% of SHSU students are first-gen students!

Located in the Newton Gresham Library, rooms 212-214, the FGC connects and engages the FG population to university resources and services while it enhances an inclusive environment that promotes a sense of belonging and empowers first-generation students to succeed (*Proud to be First-Generation*). It also identifies, develops, and strengthens relationships with FG alumni, community groups/organizations, and other entities with a significant FG focus to support FG students. The vision of the FGC is for FG students to gain a sense of community, have a transformative experience, and complete a bachelor's degree, AND for SHSU to become the leader in FG student success.

The FGC also leads all FG initiatives and hosts events and programs to support FG students throughout the academic year. For additional information, please call (936) 294-3006 or visit our FGC website (https://www.shsu.edu/dept/firstgen/).

Global Engagement Center

The Global Engagement Center (GEC) promotes and coordinates international activities at Sam Houston State University, including the recruitment and retention of international students and study and travel abroad of SHSU students, faculty, and staff. GEC is the primary contact for F-1 international students, J-1 exchange students, and J-1 research scholars at SHSU, and the staff provides assistance and information to international visitors.

GEC staff assists with immigration rules and regulations for international students, faculty, and staff. GEC also provides various support services for international students and visitors, such as initial airport pick-up, cultural events, and activities both on campus and off campus. SHSU has an active International Student Organization with both international and domestic student members.

Sam Houston State University offers opportunities for study abroad exchange programs and faculty-led programs in numerous countries across the globe. With over 330 programs in over 50 destinations, students have the opportunity to cater to their academic and professional interests based on location, curriculum, or both.

SHSU is also a member of the National Student Exchange (NSE). NSE provides accessible collegiate study away to undergraduate students at over 170 member institutions in the United States, Canada, Guam, Puerto Rico, and the U.S. Virgin Islands. GEC staff work with SHSU students applying for competitive honors and awards from around the globe. Scholarships are available for those who qualify, and we offer information sessions for many scholarships and provide one-on-one help throughout the application process.

Visit or call the GEC (https://www.shsu.edu/dept/global-engagement/)in Farrington Building, Room 116, telephone (936) 294-4737.

Mail address:
Global Engagement Center
1908 Avenue J (SHSU Box 2150)
Sam Houston State University
Huntsville, TX 77341-2150

Health Center

Student Health Services at SHSU are comprised of the Student Health Center and the Student Wellness Office.

The Student Health Center, located at the corner of Avenue J and Bearkat Boulevard, provides comprehensive medical services, health education, and health-related events to currently enrolled students. The Health Center is open from 8:00 a.m. to 5:00 p.m., Monday through Friday for the full Fall, Spring, and Summer semesters. We are closed on official University holidays.

The Health Center is a primary care medical office for SHSU students that provides office visits for routine illness and minor injuries, gender-specific care, sexual health services, immunizations, and pre-participation physicals. The center also has laboratory services and over-the-counter items available.

The cost of office visits (seeing a medical provider and/or nurse) is covered by the Medical Service Fee paid each semester as part of the tuition and fees. This fee allows a student to schedule as often as needed throughout that semester for medical services available at the Health Center. Any additional fees for laboratory tests, medications, minor procedures, and supplies will be charged to the student's cashiers office account. Charges are expected to be paid once posted. These charges are at discounted rates. The Student Health Center does not bill any medical insurance policies except the policy provided for purchase through SHSU, Academic Health Plans.

Medical staff at the Health Center is comprised of medical doctors, nurse practitioners, physician assistants, registered nurses, licensed vocational nurses, medical assistants, nursing assistants, and a dedicated front office staff.

The Health Center prides itself in its continued accreditation by the Accreditation Association for Ambulatory Health Care (AAAHC). Accreditation means that the clinic's operations meet or exceed rigorous standards of quality compared to other primary care offices across the nation.

In the case of on-campus medical emergencies, Emergency Medical Services (EMS) 911 should be called.

Please visit the Health Center (https://www.shsu.edu/dept/student-health-center/) website for more information on our services. You can also find the link to your Patient Portal on our webpage which allows you to schedule appointments online, receive testing results and messages from your medical providers, and submit forms to the Student Health Center. If you would like to learn more about our student wellness office and health education

services, please visit our Student Wellness (https://www.shsu.edu/dept/student-health-center/health-promotion/) page or follow us on social media pages: @shsuwellness and @shsushc

Please call (936) 294-1805 for any additional information about Student Health Center services. Our team looks forward to serving you as we carry out our mission to keep you healthy and support your academic success!

James and Nancy Gaertner Performing Arts Center

Opened in fall 2010, the Gaertner Performing Arts Center is a showcase for artistic talent and creative works, serving the community and the region. It serves as a world-class academic facility for students in the College of Arts & Media.

James and Nancy Gaertner Performing Arts Center Features

- 800-seat concert hall
- 175-seat recital hall
- 150-seat dance theatre
- Outdoor performance space
- Dance studios
- Practice rooms
- Dressing rooms
- Audition areas
- Scene shop for set construction
- Costume shop
- More than 90,000 square feet of total space

Public Art in the James and Nancy Gaertner Performing Arts Center

The central lobby of the Gaertner Performing Arts Center showcases original public art by internationally known artists and sculptors. Seven installations were commissioned for the building by Joe Akers, Kathleen Ash, Rebecca Finley, Jason Lawson, Jesús Morales, and Tim Prentice and Charles Pebworth.

Events in the James and Nancy Gaertner Performing Arts Center

The extensive events calendar for this spectacular performance space and for the College of Arts and Media in general can be accessed at College of Arts & Media. (https://www.shsu.edu/academics/arts-and-media/news-and-events/events-and-ticket-information/)

Mailing Address:
College of Arts and Media
Sam Houston State University
PO Box 2209
Huntsville, TX 77341

Physical Address:
James and Nancy Gaertner Performing Arts Center
College of Arts and Media
1900 Avenue I; Suite 200
Huntsville, TX 77340

Lowman Student Center

Lowman Student Center

The Lowman Student Center (LSC) proudly serves as your "Living Room on Campus" by providing a safe, welcoming, and engaging environment. With recently expanded and renovated spaces, over 1 million students, faculty, staff, administrators, alumni, and guests frequent the LSC annually. The LSC is committed to providing the university with services, conveniences, and amenities in an engaging and innovative environment.

Contact Information

LSC Office Main Number: 936.294.1759

LSC Information Center: 936.294.4902

LSC Kat Klub (game room): 936.294.3462

LSC Facebook, Instagram, Snapchat: @SHSULSC

LSC Office email: lsc@shsu.edu

LSC operational hours may be found on the Lowman Student Center (https://www.shsu.edu/dept/lowman-student-center/) website.

Services

The LSC is home to the Kat Klub (game room with bowling alley), University Bookstore, and Paw Print Food Court. Current LSC information can be found by visiting the Information Center.

Spaces

The LSC is a 225,000 sq. ft. facility, supported by state-of-the-art theatrical lighting and audio/video systems, that hosts over 8,000 events annually in the following spaces:

- **Orange Ballroom** (10,000 sq. ft.) and **White Ballroom** (8,000 sq. ft.) suitable for banquets, dances, concerts, conferences, and other large event gatherings.
- **Theater** space providing seating for 360 (plus 6 ADA) is ideal for lectures, video presentations, seminars, educational, and entertainment programs.
- **Conference Rooms** of varying sizes that can accommodate groups ranging from 12 to 200 people.
- **Kat Klub (game room)** offers bowling, billiards, table tennis, video games, a tavern, and several TV screens in a fun, friendly environment where students, faculty, staff, and guests can gather. Join us in the Kat Klub for relaxing, lounging, and gaming with friends!
- **Mother's Room** which features lockers for individual use, comfortable seating, hot and cold water, a baby changing station, cleaning supplies, dimmable lights, electrical outlets, a mini refrigerator for milk storage, and a secure, lockable door. See Information Center for access.

Museum, Sam Houston Memorial

The Sam Houston Memorial Museum, established in 1936 as a Texas centennial project, is an integral part of Sam Houston State University and is dedicated to preserving the memory of General Sam Houston (1793-1863). A soldier, statesman and politician, the only man to serve as governor of two states and president of an independent republic, Sam Houston led the fight for Texas' independence and then served Texas as President, U.S. Senator, and Governor. Located on fifteen acres, the museum complex preserves three fully furnished original Houston buildings - Woodland Home, Steamboat House, and Law Office - as well as a kitchen, blacksmith shop, and Guerrant, Roberts-Farris and Bear Bend log cabins.

The Memorial Museum Building houses the major collection of Houston memorabilia and exhibits. The Katy & E. Don Walker, Sr. Education Center is named for a distinguished alumnus of Sam Houston State University and his wife, and provides auditorium, classroom, and meeting spaces, including the W. S. Gibbs Conference Hall, as well as a gallery for traveling exhibits. The 'Wigwam Neosho,' the museum store and gift shop, is housed in a large log building on the Museum grounds. The museum offers many educational opportunities for Sam Houston State University students. These include semester- and year-long internships, with both undergraduate and graduate exploring a variety of museum study options. We also provide several part-time student jobs, tours, and research and writing programs using archives, manuscripts, and artifacts. Programs and lectures are held throughout the year. Classes as diverse as history, biology, political science, and art use the Museum and grounds as a laboratory, studio, and classroom.

In 2017, the 85th Legislature of the State of Texas approved a resolution for the creation of the Sam Houston Republic of Texas Presidential Library at Sam Houston State University. This resolution honors Sam Houston's contributions in shaping the state as well as his serving as the first and third president of the Republic of Texas. In August of 2022, the Texas State University System Board of Regents approved the Sam Houston Memorial Museum to change its name to the Sam Houston Memorial Museum and Republic of Texas Presidential Library.

The museum complex is located at the corner of Sam Houston Avenue and 19th Street and can be reached by calling (936) 294-1832 or by visiting Sam Houston Memorial Museum (http://samhoustonmemorialmuseum.com/).

Print Services

Sam Houston Print Services is the University's in-house printing and copying facility. Copying, binding, faxing, and printing services are offered to students, student organizations, faculty, and departments at Sam Houston State University.

Sam Houston Print Services (https://www.shsu.edu/dept/marketing/press.html) is located at 1831 University Ave, on the first floor of the Thomason Building, Suite 101. The facility is open from 8:00 a.m. to 5:00 p.m., Monday through Friday. For information or to arrange an appointment for placing an order, please, call (936) 294-1856 or (936) 294-1768.

Public Safety Services, University Police, and Parking & Transportation Office

University Police Officers

University Police Officers are licensed peace officers as defined under the laws of the State of Texas and thereby have the authority of peace officers. Their primary jurisdiction, under H.B. 391, includes all counties in which property is owned, leased, rented, or otherwise under the control of Sam Houston State University.

The University Police Officers subscribe to the Law Enforcement Code of Ethics, a portion of which reads, “As a law enforcement officer, my fundamental duty is to serve mankind; to safeguard lives and property; to protect the innocent against deception, the weak against oppression or intimidation, and the peaceful against violence or disorder; and to respect the Constitutional rights of all citizens to liberty, equality, and justice.” In this endeavor, the University Police earnestly solicit the support of the faculty/staff and students. Many officers are students thus providing a balance within Public Safety Services from a student’s perspective.

In addition to University regulations, all the general and criminal laws of the State and the United States are declared to be in full force and effect within the properties of Sam Houston State University. All persons are responsible for compliance with these laws.

All thefts, vehicle accidents, or other criminal offenses that occur on campus should be reported immediately to the University Police. The Charles W. Tackett University Police Building is located at 2424 Sam Houston Avenue (Sam South Complex) —Telephone Number (936) 294-1800. Police Officers are on duty 24 hours every day. The business office hours are 7:30 a.m. until 4:30 p.m., Monday - Friday.

Campus Safety. Sam Houston State University offers a variety of services to promote a safe campus environment. The campus is equipped with emergency call boxes stationed at strategic locations throughout the campus to include parking lots, walkways, and residence halls. Additionally, the University Police provide staff to escort students not wishing to walk alone at night to and from campus buildings and parking lots. Students wishing to learn more about personal safety and self defense may take advantage of programs offered by the University Police Department. For more information, call (936) 294-1800 (Emergency 936-294-1000).

Emergency Management

The campus Emergency Management disseminates critical emergency response information that includes text messages, voice calls, emails, desktop alerts, social media messaging, and loudspeaker announcements. For preparedness, the campus maintains an emergency preparedness website and a cell phone/tablet application with essential training information in checklist form and situational videos for the campus community to include access for visitors on campus. This information is available at KatSafe (https://www.shsu.edu/katsafe/).

Parking & Transportation

Parking. Students, full - or part-time, who operate or expect to operate a motor vehicle, motor cycle, or motor-assisted cycle on University property, regularly or occasionally, are REQUIRED to register the vehicle with the Department of Public Safety Services and obtain an electronic parking permission assigning a designated area of parking. The University reserves the right to require proof of ownership of the vehicle being registered. Parking and Traffic Regulations and Information governing the operation of motor vehicles is issued via internet hyperlink at the time of the electronic parking permission purchase and is available for download or view from Parking and Transportation (https://www.shsu.edu/dept/public-safety/parktrans/). Failure to read the regulations is not an excuse for failure to comply with the university parking rules and regulations. Vehicles found in violation are subject to applicable fines as well as tow and impound.

Campus Recreation

CAMPUS RECREATION exists to make positive contributions to student **WELLBEING.**

We are **STUDENT DRIVEN** in our focus.

We practice **STEWARDSHIP** of the resources entrusted to us.

We strive to provide excellent **CUSTOMER EXPERIENCES** in our programs and facilities.

To see more about the Campus Recreation programs and services, view our orientation video here (https://youtu.be/RpkxCJuMakM/). You can also find more information by downloading the SHSU Rec Sports App through the Apple App Store (https://apps.apple.com/nz/app/shsu-recreational-sports/id1440068155/) or Google Play (https://play.google.com/store/apps/details/?id=com.innosoftfusiongo.samhouston&hl=en_US&gl=US).

Facilities

Facilities managed by the Department of Recreational Sports include:

- Campus Recreation (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html) Center
- McAdams Tennis Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Pritchett Field Sports Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Holleman Field Sports Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Intramural Sports Fields (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Sand Volleyball Courts (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- University Camp. (http://www.shsu.edu/dept/recreational-sports/facilities/university-camp/camp-facilities.html)

The Rec Center houses a 34' climbing wall, a 10,000 ft^2 weight room with a cardio area, several multipurpose rooms and fitness studios, and an outdoor heated swimming pool. New additions in 2023 include two multipurpose rooms, a functional training area, expanded cardio space, and a full-size competition gym. This expands upon the original four basketball courts, two multi-purpose rooms, a 1/8-mile indoor running track, nine racquetball courts, functional training area, and a supplemental weight room. Next to the Rec Center, there are three Intramural Sports Fields and two Sand Volleyball courts. Campus Recreation uses these facilities for Intramural Sports, Informal Recreation, and Special Events. Just up the hill is the McAdams Tennis Complex, an outdoor tennis venue with eight tennis courts. The Pritchett Field Sports Complex and Holleman Field, home to our Club Sports program, include two athletic fields (one grass and two turf) and an outdoor running track.

The University Camp (http://www.shsu.edu/dept/recreational-sports/facilities/university-camp/camp-facilities.html) is a one-of-a-kind recreation and retreat facility located 15 minutes northeast of campus. Booked through group reservations, members of the SHSU community can spend a day canoeing on the water, fishing, hiking, biking, challenging themselves on the low or high-ropes challenge courses, hosting a gathering in the dining hall and lodge, or just enjoying a picnic by the lake. Groups may also reserve cabins for overnight retreats.

Programming

As a student, you will enjoy the Informal Recreation (http://www.shsu.edu/dept/recreational-sports/)program by participating in self-directed activities such as drop-in basketball, weight-lifting, cardio, racquetball, or swimming. The Aquatics & Safety (http://www.shsu.edu/dept/recreational-sports/programs/aquatics-and-safety/aquatics-and-safety.html) program offers lifeguard and CPR classes, swimming lessons, and open swimming. The seasonally heated pool has four 25-yard lap lanes and a leisure area for water sports or merely relaxing in the sun. The Fitness Program (http://www.shsu.edu/dept/recreational-sports/programs/fitness/fitness.html) offers comprehensive wellness programming for the Bearkat community. Programs include group fitness classes, yoga, personal training, nutrition consultations, and instructor training. The Intramural and eSports (http://www.shsu.edu/dept/recreational-sports/programs/intramural-sports/intramural-sports.html) programs offer a variety of team, dual, and individual activities with both competitive and recreational divisions. The Club Sports (http://www.shsu.edu/dept/recreational-sports/programs/club-sports/club-sports.html) program comprises recognized student organizations established to promote and develop common sport- and/or recreation-related interests. Volunteer student leaders organize, administer, and compete in our active clubs. Outdoor Recreation (http://www.shsu.edu/dept/recreational-sports/programs/outdoor-recreation/outdoor-recreation.html) is a multifaceted program comprising six primary areas: Trips, Workshops, the Climbing Center and bouldering area, equipment rental (tents, sleeping bags, kayaks, etc.), Bearkat Camp (http://www.shsu.edu/dept/recreational-sports/programs/bearkat-camp/bearkat-camp.html) (a three-day experience for incoming freshmen and transfer students), and the 345-acre University Camp and retreat center. The department also provides many employment opportunities for students who are interested in part-time work. Campus Rec employs over 300 students (https://shsu.co1.qualtrics.com/jfe/form/SV_0052Qm8ghroUmQR/) annually in intramural officiating, facility supervision, aquatics, marketing, outdoor recreation, and fitness. For more information about any of these Campus Recreation activities, please, stop by the administrative offices on the second floor of the Campus Recreation Center, call (936) 294-1985, download the SHSU Rec Sports App, or visit the C (https://www.shsu.edu/dept/recreational-sports/)ampus Recreation website.

Residence Life

The Department of Residence Life operates a variety of residence halls, including apartments for upperclassmen. Upon acceptance to the University, all students who are required to live on-campus their first year will be mailed a housing brochure. This brochure provides many details of the residence life program at Sam Houston State University, including information regarding specific residence halls, applicable rates, and some policies. Students can also visit Residence Life (http://www.shsu.edu/%7Ehou_www/) or call (936) 294-1812.

A person may not live in University housing unless enrolled in classes at SHSU for each particular semester.

Housing applications may be made via the website once the student has been accepted to SHSU. A $50 non-refundable application fee is required. Assignments are made on a space-available basis according to the application fee received date. The housing contract will be in effect and must be adhered to for the full academic year.

Students may pay for housing in full at registration or in an installment arrangement, in accordance with the policies set forth by the University Cashier's Office.

University residence halls are closed during the academic breaks between semesters. Students who have a future reservation with SHSU may stay in the residence hall during these periods for an additional fee.

On-Campus Apartments

The University offers upperclassmen students the option to reside in apartments. There is a variety of options available, including single, double, and quad occupancy, 24-hour visitation, and pet-friendly options. All residents must be enrolled in the University. Students residing in University apartments through the academic year may stay during the Winter break for no extra fee.

First-year Students Required Housing And Meal Plan Policy

All students who have graduated from high school within the current or previous calendar year are required to reside in University housing and to purchase a meal plan for their first year, which will normally include the fall and spring semesters. For example, a May or June 2025 graduate will be required to reside on-campus Fall 2025 and Spring 2026 semesters. Anyone signing an academic year housing/meal plan contract will be required to

fulfill the terms of that contract. Exceptions to the First-Year Required Housing and Meal Plan Policy may be made by the Department of Residence Life if:

1. residence in University housing will impose a significant hardship, financial or otherwise; or
2. the student is married and living with his/her spouse; or
3. the student commutes from the home of his/her parents, grandparents, or a brother or sister within a 60 mile radius from the SHSU campus; or
4. the student is a veteran of military service.

The student must provide documented evidence to warrant consideration for a waiver of this requirement. A denial of this request may be appealed to the Director for Residence Life Business Operations. Charges for both services will be added to the student's account until approval for the waiver is obtained. Any student who does not comply with the above policy will be subject to disciplinary action as specified by the Code of Student Conduct as published in *Student Guidelines*.

Default housing ($3,000 placeholder for rent charges) and Dining (All Access Plan) will be added to all students required to live on-campus for both Fall and Spring semesters. These charges will be removed with approved waiver or assignment to an on-campus booking. Waivers must be received by the 8th class day of the semester. Any waivers received after the 8th class day will only be reviewed in extenuating circumstances, and no request will be reviewed after the close of the requested semester.

Students may apply for an on-campus housing/dining waiver by accessing the Housing Portal in MySam Students tab. In the Housing Portal, students will locate Forms tab and choose "Request for Waiver of First-Year Housing Policy," complete all requested information and supply additional documentation as requested. Any student denied a waiver will have 10 business days to request an appeal.

Dining Service for Residential Students

All students (regardless of classification) who reside in the residence halls will be required to purchase a University Resident Meal Plan (All Access, 15 Meals per Week, 10 Meals per Week (*Sophomore status and above only). All of these meal plans include "Bearkat Bucks," which can be used in lieu of cash at any food related establishment on campus. Meal plan contracts are valid for the entire academic year. Rates and additional information are available from the Department of Residence Life. Students who reside in on-campus apartments are not required to purchase a Resident meal plan.

Dining Service for Non-Residential Students

Students who do not reside on campus have the option to purchase any meal plan available (All Access, 15 Meals per Week,10 Meals per Week (*Sophomore status and above only), 72 Meals per Semester (Bearkat Value Plan), 32 Meals per Semester (Bearkat Lite), or Bearkat Flex Plan. All of these meal plans include "Bearkat Bucks," which can be used in lieu of cash at any food related establishment on campus. Meal plan contracts are valid for the entire academic year. Rates and additional information are available from the Department of Residence Life.

Bearkat Bucks

Bearkat Bucks, welcome at any ARAMARK managed campus dining facility, is a declining balance account in which a minimum of $25 is deposited, and the cash price of food purchases are deducted from the balance. Money deposited in a students' Bearkat Bucks can be used in lieu of cash at any food related establishment on campus. All purchases are non-refundable and any unused Bearkat Bucks will be lost at the completion of the 2nd summer session.

Summer Housing

The buildings that are open for summer school housing vary from year to year because of renovation and maintenance schedules. Assignments are made according to application fee received date.

Services for Students with Disabilities

Services for Students with Disabilities (SSD) provides academic adjustments and auxiliary aids and services for students with documented mental or physical impairments that substantially limit one or more major life activities. To apply for services, students must register with SSD, participate in a disability intake, and submit current documentation from a qualified professional indicating the presence of a substantially limiting impairment. Accommodation decisions are made on a case-by-case basis, as supported by the student's documentation and educational needs. For additional information on the SSD documentation guidelines, procedures for requesting services, and adaptive technologies available on the SHSU campuses, students are encouraged to visit Services for Students with Disabilities (http://www.shsu.edu/dept/disability/) or to contact the SSD Office at telephone (936) 294-3512, TDD (936) 294-3786, or email Disabilities (disability@shsu.edu).

Student Money Management Center

Student Money Management (SMM) is a financial outreach and educational program administered by the Sam Houston State University Division for Strategic Enrollment & Innovation.

The mission of Student Money Management is to help Bearkats achieve financial independence.

The goals of Student Money Management are for students to:

- Learn how to identify and track expenses during and after college;
- Create a financial survival plan for college;
- Graduate with a plan for repaying student loans and personal debt;
- Locate external financial education resources;
- Talk to trained professionals about personal financial decisions and issues in a confidential and comfortable environment;
- Create a personalized budget for the upcoming semester or year at SHSU;
- Learn how to obtain, interpret and understand a personal credit report; and
- Understand employee benefit packages and retirement plans prior to accepting a career opportunity.

Student Money Management offers financial literacy outreach to students in the form of presentations and workshops on a number of financial literacy topics, including but not limited to:

- Budgeting & Saving
- Setting Financial Goals
- Credit
- Student Loan Repayment

Personal Coaching

Student Money Management also offers private, individualized, and **free** financial coaching sessions from certified professionals. Through this financial literacy resource, SHSU students can learn how to gain and maintain financial independence. Coaching sessions with full-time staff members are available by walk-in and appointments through Campus Connect.

For more information, visit Student Money Management (http://www.shsu.edu/dept/smmc/) or call 936-294-2600.

Students' Legal & Mediation Services

Mission

We serve currently-enrolled SHSU students by providing them with high-quality legal advice and equipping them with techniques to resolve disputes so they can focus on their educational goals**.**

Legal Services

Our attorneys (https://www.shsu.edu/dept/student-affairs/legal/slms-staff/) advise and counsel students on legal issues that they face. Meetings between a student and an attorney are confidential, as allowed by law. While our attorneys do not represent students in court, they help students better understand their legal issues, rights, and responsibilities, guide students through the legal procedures that they may face, and assist students in productively and proactively dealing with their legal situation.

Types of Legal Issues

Student Legal & Mediation Services can assist students with many types of legal issues, including, but not limited to:

- Rental Agreements and Issues with Landlords
- Contract Drafting and Review
- Background Reports
- Identity Theft
- Business Formation
- Traffic Tickets
- Wills and Powers of Attorney
- Divorces
- Name Changes
- Real Estate
- Demand Letters
- Consumer Protection
- Expunctions and Orders of Nondisclosure
- Copyright and Intellectual Property
- Debt Collection Practices

- Employment-related Issues
- Notary Services

Mediation & Conflict Resolution Training

Student Legal & Mediation Services also provides mediation services and conflict resolution training. When people are in a dispute, a neutral person—the mediator—can help the parties understand the cause of the dispute and help them develop creative solutions to resolve the dispute. Student Legal & Mediation Services has a trained mediator who helps students resolve their conflicts constructively, timely, and confidentially. We've helped students in roommate disputes, family conflicts, and disputes between groups.

Conflict Resolution Month takes place every October. Student Legal & Mediation Services brings world-class speakers to campus to help us understand causes of conflict and how to resolve conflicts peacefully and responsibly. Visit our website (https://www.shsu.edu/dept/student-affairs/legal/conflict-resolution-month/) for more information.

Cost

Because Student Legal & Mediation Services is supported by Student Service Fees, there is no cost for a consultation with the attorney or the mediator for currently-enrolled SHSU students who have paid the Student Service Fee.

Location & Making Appointments

Student Legal & Mediation Services is located in the Lowman Student Center (http://www.shsu.edu/dept/lowman-student-center/), Suite 327. Consultations are by appointment, either in-person, phone, or by video. Students may make an appointment by calling (936) 294-1717, online at Student Legal & Mediation Services (http://www.shsu.edu/dept/student-affairs/legal/), or through Campus Connect (https://www.shsu.edu/dept/student-success-technologies/campus-connect/).

Speaker for Student Groups

Student Legal & Mediation Services is also available to speak to SHSU student groups and organizations on legal and conflict resolution topics. Please call (936) 294-1717 to learn more about having us speak to your group.

Conflicts of Interest

Student Legal & Mediation Services is unable to offer legal advice in disputes between Sam Houston State University students or disputes between a student and the university, but our office can refer you to a private attorney.

Student Services, Division of

The role of the Division of Student Affairs is to complement the total educational mission of the University by providing opportunities for students to develop and grow in an academic environment. This is accomplished by offering quality programs and emphasizing the holistic approach in co-curriculum involvement. Studies indicate that learning occurs in an environment conducive to social, recreational, educational, and intellectual interaction. A variety of student service programs are designed to foster such interaction with students, faculty, staff, and the University community. The goal of the division is to contribute to the learning experiences of SHSU students, helping them to become educated, enlightened, and empowered in ways that they can achieve and contribute as productive citizens in their college, community, and country.

The Office of the Vice President for Student Affairs provides administrative leadership, supervision, and coordination for the Division of Student Affairs. The division includes the following departments: Campus Activities and Traditions, Counseling Center, Dean of Students' Office, Fraternity and Sorority Life, Lowman Student Center, Campus Recreation, Residence Life, Services for Students with Disabilities (SSD), Student Health Center, Student Involvement: Leadership and Service, Student Legal and Mediation Services, and Student Wellness. For more information, visit the website at www.shsu.edu/student-affairs (https://www.shsu.edu/dept/student-affairs/contact.html).

Veterans Resource Center

To provide a comprehensive start to finish experience to military-affiliated students as they navigate through their academic journey at Sam Houston State University.
Our office is in Academic Building III, Suite 110.
Phone Number: 936.294.1046
Email: Veterans@shsu.edu

VetSuccess Counselor

SHSU houses one VA VetSuccess Counselor on its campus. If you are a veteran, active-duty military or an eligible family member who attends or plans to attend SHSU, please call or come by to meet with our VetSuccess on Campus Counselor.

SHSU VetSuccess on Campus counselor can help you:

- Manage your education benefits
- Explore vocations and select a suitable major/career
- Elect your healthcare benefits with Veterans Healthcare Administration
- Access, understand and apply for VA benefits (e.g., Disability Compensation, Life Insurance, Education, Home Loan Guaranty, and Veteran Readiness & Employment)
- Get referrals for medical and mental health care
- Get referrals for readjustment counseling services for eligible veterans and their families
- Coordinate with school faculty/staff to provide veteran-specific services (e.g., VA Certifying Official, Career Center, Student Disabilities Services, Counseling Center)
- Find job placement assistance and coordinate with Local Veterans' Employment Representatives (LVER) and Disabled Veterans' Outreach Programs (DVOP)
- Locate community and other resources

Your VetSuccess on Campus Counselor

Roberta Ardoin (roberta.ardoin@va.gov), MHS, CRC
936-294-2263
AB III Suite 110

Visitor Services

Located in the Visitor Center, the Sam Houston State University Visitor Services Department is the front door of the University. Visitors are encouraged to stop in to Visitor Services upon arrival to campus to get information to maximize their campus visit including directions, parking registration, and contact information. Please contact Visitor Services to:

- Schedule (https://www.shsu.edu/dept/visitors/) a tour of the campus
- Register (http://www.shsu.edu/saturday/) for a Saturday@Sam Campus Preview Day

Visitor Services is located at the Bowers Boulevard entrance to campus. Visitors can speak with a SAMbassador, enjoy showcased SHSU memorabilia, and view the university's "story" on video in the state-of-the-art theater.

Saturday@Sam is our bi-annual campus preview day, held in the fall and spring of each year for prospective students and guests. For more information, please visit Visitor Services (http://www.shsu.edu/visit/) or contact us at (936) 294-1844.

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College of Arts and Media

Administrative Officers

Title/Department	Officer
Dean	Jason Vest, DMA jasonvest@shsu.edu; (936) 294-2770
Interim Associate Dean	Brian Gibbs, Ph.D. bxg012@shsu.edu; (936) 294-2773
Associate Dean	Michael Henderson, M.F.A. mhenderson@shsu.edu; (936) 294-1117
Associate Dean	TBD
Department of Art	Rebecca Finley, M.F.A., Chair bfinley@shsu.edu; (936) 294-1314
Department of Dance	Jennifer Pontius, M.F.A., Chair dnc_jkp@shsu.edu; (936) 294-1300
Department of Mass Communication	Nam Young Kim, Ph.D., Chair nyk001@shsu.edu; (936) 294-3651
Department of Theatre and Musical Theatre	Nicholas Graves, M.F.A., Chair nag023@shsu.edu; (936) 294-4033
School of Music	Scott Plugge, D.M.A., Director mus_sdp@shsu.edu; (936) 294-1360

Mission

The College of Arts and Media consists of five outstanding divisions that seek to inspire, educate, and graduate creative artists and media professionals: the Departments of Art, Dance, Mass Communication, Theatre & Musical Theatre, and the School of Music.

The College of Arts and Media offers state-of-the-art facilities, including the James and Nancy Gaertner Performing Arts Center, in which to present unique and cutting-edge programming. Ranging from the traditional to the experimental, students explore new frontiers in all their creative endeavors. Opportunities for study include digital media and film, multiplatform journalism, and public relations; dance techniques, dance production and technology; computer animation, graphic design, painting, sculpture, art history, and art education; music education, music performance and conducting, musicology, and music therapy; theatre performance and design, musical theatre production; and more. Sam Houston State University students in the College of Arts and Media strive to be artists, media experts, and educators in the arts. After graduation, they go on to pursue advanced degrees and a variety of careers in visual art practices, public relations, education, broadcast and media industries, and the performing arts.

Highlights

- Faculty members in the College of Arts and Media are recognized nationally and internationally for their expertise through awards, publications, presentations, and performances.
- Students within the college enjoy a high degree of personalized support and developmental opportunities, including numerous scholarships, ensemble trips, artistic competitions, and international study.
- Over 200 arts events are scheduled on campus throughout the year, including art gallery exhibits, musical theatre performances, dance performances, music concerts and recitals, and theatre productions.
- Departments in the College of Arts and Media annually host state and regional conferences, symposiums, and festivals.

Academic Programs

The College of Arts and Media is comprised of 5 academic units:

- Department of Art
- Department of Dance
- Department of Mass Communication
- Department of Theatre & Musical Theatre
- School of Music

College of Arts and Media Undergraduate Degrees

Major	Degree(s)
Department of Art	
Animation	B.F.A.

Art	B.A.
Graphic Design	B.F.A.
Photography	B.F.A.
Studio Art 2D Track	B.F.A.
Studio Art 3D Track	B.F.A.
Department of Dance	
Dance	B.F.A.
Department of Mass Communication	
Mass Communication with Concentration: Broadcast Production	B.A.
Mass Communication with Concentration: Film	B.A.
Mass Communication with Concentration: Multiplatform Journalism	B.A.
Mass Communication with Concentration: Public Relations and Advertising	B.A.
Mass Communication: Film and Television Production	B.F.A.
Department of Theatre & Musical Theatre	
Musical Theatre With Dance Emphasis	B.F.A.
Musical Theatre With Theatre Emphasis	B.F.A.
Theatre - Acting and Directing Emphasis	B.F.A.
Theatre - Design and Technology Emphasis	B.F.A.
Theatre - Theatre Studies Emphasis	B.F.A.
Theatre with Teaching Certification	B.F.A.
School of Music	
Music	B.A.
Music with Concentration: All Level Certification Choral	B.M.
Music with Concentration: All Level Certification Choral-Piano	B.M.
Music with Concentration: All Level Certification Instrumental	B.M.
Music with Concentration: All Level Certification String	B.M.
Music with Concentration: Composition	B.M.
Music with Concentration: Instrumental Performance	B.M.
Music with Concentration: Piano Performance	B.M.
Music with Concentration: Vocal Performance	B.M.
Music Therapy	B.M.

Undergraduate Certificate

Departments	Programs
School of Music	Jazz Studies
School of Music	Woodwind Performance Pedagogy

Minor in Arts and Popular Culture

Students seeking a Minor in Arts and Popular Culture are required to complete:

Code	Title	Hours
Minor in Arts and Popular Culture		
Required Courses		
MUSI 1310	History of Rock, Jazz, and Popular Music	3
DANC 1372	Dance and Popular Culture	3
MCOM 2366	Film Appreciation	3
ARTS 3385	Art History Survey II	3
ARTS 3382	The History Of Animation	3
Prescribed Electives		
Select three hours from the following:		3

ARTS 1302	Exploring Contemporary Art	
THEA 1366	Theatre Appreciation	
Total Hours		**18**

Department of Art

Chair: Rebecca Finley, M.F.A (rlf001@shsu.edu).
(936) 294-1314

Website: Department of Art (https://www.shsu.edu/academics/art/)

The Department of Art offers opportunities for creative students to explore and develop proficiencies in many traditional art forms, such as drawing, painting, sculpture, printmaking, ceramics, and photography. New and innovative art forms are also promoted in the Department of Art. Digital media courses are offered in graphic design, animation, photography, and studio art. Traditional and new media programs are supported by the Art History program, which provides concepts in aesthetics and art theory from diverse cultures and time periods.

Mission

The mission of the Sam Houston State University Department of Art is to teach skills, techniques, aesthetic principles and concepts that develop students personally and help to prepare them for professional careers in art and design as well as postgraduate study. We foster a vibrant environment for creative research and collaboration between faculty, students, and the community.

Highlights

All of the degree programs in the Department of Art are accredited by the National Association of Schools of Art and Design (NASAD).

The Department of Art is housed in the Dana G. Hoyt Fine Arts Building with over 70,000 square feet of space devoted to studios, laboratories, lecture halls and galleries. Studios for painting, sculpture, ceramics, printmaking, and photography are equipped with the best tools available for students to develop skills and express ideas. Digital labs maintain state-of-the-art computer equipment for students in graphics, photography and computer animation.

Visiting artists from around the U.S. exhibit their work in the University Art Gallery and give public lectures, workshops, and critiques for students. Individual studio space is available for advanced students in the Studio Art and Photography programs. The department operates the Satellite Gallery, devoted to exhibitions of student work in downtown Huntsville. Students in the Department of Art have the opportunity to take the New York Art Trip every fall and also have study abroad opportunities every summer.

Program Specific Requirements

Studio classes in computer animation, graphic design, photography, and studio art meet six clock hours per week each semester for three credit hours. Art history lecture classes meet for three clock hours per week.

All art students must take W.A.S.H. (ARTS 1313, ARTS 1314, ARTS 1315) as a prerequisite for other art courses.

After completing the Art Foundation courses (see below), students must pass the BFA Portfolio Review to continue in a BFA program. The BA in Art does not require the BFA Portfolio Review. For more details regarding the BFA Portfolio Review, please refer to the degree plans.

Students must have a 3.0 GPA or higher in art courses to graduate with a BFA degree.

All undergraduate students are required to complete at least six hours of **Writing Enhanced Courses** within the discipline, of which three hours must be advanced.

Seniors are required to exhibit their work publicly as part of the capstone class in each BFA program.

Prerequisites for all ARTS courses require a grade of C or higher.

Application to Art Programs -- All students entering the Department of Art as majors in Art, Animation, Graphic Design, Photography, or Studio Art must submit an application to the Department of Art after completing the University admission application. The application requirement includes a portfolio of artwork. The deadline for Art program applications is earlier than the University deadline. The application (http://www.shsu.edu/art/application/) for Art programs is found on the Department of Art website (http://www.shsu.edu/art/application/).

Laptop Requirement

Art students are required to own a Mac laptop as specified by their chosen program of study. Mac laptops are a required material for W.A.S.H. students. Financial Aid may adjust funding for qualified art students for the purchase of required hardware and software. Students must complete the financial aid application and qualify for financial aid. Contact the Office of Financial Aid for details. For current laptop and software requirements, go to Laptop Requirements (https://www.shsu.edu/academics/art/resources/laptop-initiative.html) for more information.

Teacher Certification in Art

To become certified to teach art in a public school in the State of Texas, students will pursue an All-Level Certification in Art by following the degree plan for one of the BFA programs with a Teaching Certification track. The Teaching Certification tracks require twenty-four hours of Education courses in addition to the BFA requirements.

To complete the requirements for certification, students must pass two (2) TExES certification exams. Before receiving permission to take the exams, students must pass the BFA Portfolio Review and have at least a 3.0 GPA in art courses.

For more information about Teacher Certification and the Secondary Education Minor, see the website for Educator Preparation Services (https://www.shsu.edu/academics/education/educator-preparation/).

Curriculum

BFA Degrees

The BFA is the professional degree in art. BFA programs are offered in Studio Art (2D and 3D Tracks), Computer Animation, Graphic Design, and Photography. All of the BFA degrees in the department require a foundation of courses that emphasizes the principles of design, basic techniques, mark making, spatial organization, gestalt theories and principles, and color theories. These principles, ideas, and skills are put into practice in projects that require creative problem solving, individual solutions, and personal expression. After completing the Art Foundation courses and the BFA Portfolio Review, students take the BFA Core, a common core of art classes that includes courses in 2D, 3D, and time-based mediums. The BFA Core provides opportunities to practice and develop the skills and ideas acquired in the Art Foundation courses. Expertise in specific disciplines is then further developed in the remaining upper-level Major courses in each BFA program.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Total Hours		**15**

Code	Title	Hours
Art Core		
ARTS 1303	Art History Survey I [1]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Total Hours		**21**

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

For complete curricular information, refer to the individual BFA degree plans.

BA Degree

The BA is a liberal arts degree that requires a minor. Students in the BA program are not required to complete the BFA Portfolio Review.

For complete curricular information, refer to the BA degree plan.

- Bachelor of Arts, Major in Art (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/ba-art/)
- Bachelor of Fine Arts, Major in Animation (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-animation/)

- Bachelor of Fine Arts, Major in Animation with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-animation-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Graphic Design (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-graphic-design/)
- Bachelor of Fine Arts, Major in Graphic Design with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-graphic-design-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Photography (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-photography/)
- Bachelor of Fine Arts, Major in Photography with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-photography-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Studio Art 2D Track (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-studio-art-2d-track/)
- Bachelor of Fine Arts, Major in Studio Art 2D Track with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-studio-art-2d-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Studio Art 3D Track (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-studio-art-3d-track/)
- Bachelor of Fine Arts, Major in Studio Art 3D with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-studio-art-3d-with-teaching-certification/)
- Minor in Arts and Popular Culture (p. 147)
- Minor in Art History (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/art-history-minor/)
- Minor in Graphic Design (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/graphic-design-minor/)
- Minor in Photography (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/photography-minor/)
- Minor in Three-Dimensional Studio Art (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/three-dimensional-studio-art-minor/)
- Minor in Two-Dimensional Studio Art (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/two-dimensional-studio-art-minor/)

Student Organizations

The Student Art Association (SAA) is a student-motivated organization that provides students with opportunities to create a community environment and form a strong network among their peers. The SAA is dedicated to student development, member exhibitions, technical/creative workshops, field trips, and promotion of student work.

SHSU SIGGRAPH (https://www.shsu.edu/academics/art/resources/organizations.html) is an organization of students interested in computer animation, computer-generated imagery, and interactive techniques. SIGGRAPH members work together on independent animated projects and games, support one another by sharing techniques and knowledge, travel to visit professional game and animation studios, and have the opportunity to attend the national SIGGRAPH conference in the summer.

Student Design Collective (SDC) is a graphic design organization whose goal is to enhance classroom learning and develop professional relationships in order to assist students now and in their future careers. SDC intends to help better prepare students for real world applications and work environments, as well as promote interest and appreciation of graphic design through events, hands-on workshops, and community involvement.

Drawing Club is an organization for students interested in the art and practice of drawing. The club meets regularly to discuss drawing used in many applications—including comic books, scientific illustrations, and fine art—and organizes Open Drawing Sessions, which feature live models and meet outside of regular class times in departmental studio spaces.

Internships, Research, and Community Engagement

The Department of Art is committed to providing opportunities for students to work as interns in professional environments in the fields of graphic design and computer animation. Photography and studio art majors have opportunities to intern or volunteer at art centers and community organizations. Students actively engage the community through ACE (Academic Community Engagement (http://www.shsu.edu/academics/cce/))

courses, public exhibitions, and screening of their work both on and off campus. For more information about community engagement and internships, contact the Department Chair.

Scholarships

Scholarships are available from both the Department of Art and the university to support a student's study.

The Department of Art Scholarships include:

- Art Endowment
- Clem Otis
- Distinguished Faculty Scholarship
- Elkins Lake Kuntz-Nelson
- Emmette Jackson
- Hal Fulgham Scholarship
- James B. and Marilyn C. Shepard
- Kenneth Zonker
- Madison Wolfe
- Marion St. John Baker
- Majorie Leverton Boehme
- Ruth Wynne Thomason Hollinshead
- Stanley E. Lea
- Weldon Hall Jr.

Departmental scholarships are available to full-time art students. The Weldon Hall Jr. Scholarship is available to incoming freshmen. More information may be obtained by visiting the Department of Art scholarships (https://www.shsu.edu/academics/art/resources/scholarships.html) web page or calling (936) 294-4311. Information on university scholarships may be obtained at the Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships/) or by telephone at (936) 294-1672.

Director/Chair: **Rebecca L Finley**

Nathan Douglas Anderson, MFA (nda016@shsu.edu), *Assistant Professor of Practice in Arts*, *Department of Art*, MFA, Academy of Art University; BFA, Academy of Art University

Joshua Robert Backus, MFA (jrb144@shsu.edu), *Visiting Assistant Professor of Art*, *Department of Art*, MFA, Univ of Chicago; BFA, School of Art Inst of Chicago

Carolyn Kate Baxter, MFA (ckb039@shsu.edu), *Lecturer-Pool Faculty of Art*, *Department of Art*, MFA, Laguna College of Art and Design; BS, Texas A&M University

Mary K Borcherding, MFA (art_mkb@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Indiana University-Bloomington; BS, Univ of Wisconsin-Madison

Emma Renee Breslauer, MFA (erb053@shsu.edu), *Assistant Professor of Art*, *Department of Art*, MFA, Univ of Texas-Arlington; BFA, Univ of Texas-Arlington

Jonathan Ronald Bryson, MFA (jrb132@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Ball State University; BFA, Clemson University

Christopher Frank Cascio, MFA (cfc005@shsu.edu), *Assistant Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BFA, San Francisco Art Inst

Yvonne Casique, MA (yxc106@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Azusa Pacific University; BA, U-Houston Downtown

Angel Castelan, MFA (axc515@shsu.edu), *Lecturer-Pool Faculty of Arts*, *Department of Art*, MFA, Univ of Houston-Main; BFA, Univ of Houston-Main

Lauren Clay, MFA (lxc039@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Wichita State University; BA, McNeese State University

Charlotte M. Drumm, MFA (art_cmd@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Florida State University; BA, Louisiana College

Rebecca L Finley, MFA (rlf001@shsu.edu), *Professor of Photography and Chair of Art*, *Department of Art*, MFA, San Francisco Art Inst; MFA, San Francisco Art Inst; BA, Univ of Tennessee-Knoxville; BA, Univ of Tennessee-Knoxville

Lauren Cotner Francis, MA (lcf019@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Southern Methodist University; BA, Univ of The South

Fredric Freeman, MS (fxf015@shsu.edu), *Lecturer of Art*, *Department of Art*, MS, Thomas Jefferson Univ; BS, Thomas Jefferson Univ

Analisa Garcia, MA (axg396@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Azusa Pacific University; BA, Univ of Texas-Brownsville

Erika Whitney Garrett, MFA (ewg009@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Houston-Main; BFA, Univ of Texas At Tyler

Veronica Sierra Danielle Gibson, MFA (vsg014@shsu.edu), *Visiting Assistant Professor of Art*, *Department of Art*, MFA, Pratt Institute; BS, Western Michigan University

Melissa Catharine Glasscock, MFA (mxg102@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Savannah College of Art & Desi; BFA, Univ of Central Florida

Shaun T Griffiths, MFA (stg008@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Alfred University; MA, University of Sunderland; BFA, San Jose State University

Lisa Ann Harris, BFA (lah087@shsu.edu), *Lecturer of Art*, *Department of Art*, BFA, Univ of Houston-Main

Michael Henderson, MFA (mhenderson@shsu.edu), *Professor of Art and Associate Dean, CAM; Adjunct Faculty*, *Department of Art*, MFA, Univ of North Texas; BFA, Univ of North Texas

Barbara Alicja Kaminska, PHD (bak018@shsu.edu), *Associate Professor of Art*, *Department of Art*, PHD, Univ of Calif-Santa Barbara; MA, University of Warsaw

Emily Taehee Kim, MFA (thkim@shsu.edu), *Professor of Art*, *Department of Art*, MFA, LSU & A&M College; BFA, Hanyang University

Erin Margaret Lopez, PHD (eml059@shsu.edu), *Lecturer-Pool Faculty of Arts*, *Department of Art*, PHD, Temple University; MA, Bard College; BA, Sarah Lawrence College

Elias John Lytton, MFA (ejl035@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Florida; BFA, Univ of Houston-Main

Russell Wayne Marcontell, MFA (rwm020@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Uni de Guanajuato Inst Allende; BFA, Sam Houston State University

Melissa L Mednicov, PHD (mmednicov@shsu.edu), *Associate Professor of Art*, *Department of Art*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; BA, Smith College

Lloyd Jason Mitchell, MAED (ljm076@shsu.edu), *Lecturer of Art*, *Department of Art*, MAED, Argosy University; BFA, Northern Arizona University

Tudor Mitroi, MFA (tmitroi@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of North Texas; DIPL, Institute of Plastic Art

Edward Michael Morin, MFA (emm026@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Syracuse University; BFA, Univ of North Texas

Divya Murthy, MFA (divyam@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Tufts University; BFA, Univ of Houston-Main

Erin Jean Neve, MFA (eneve@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Minnesota; MAE, Texas Tech University; MA, Texas Tech University; BA, Texas Tech University

Morgan C Page-Rice, MFA (mcp067@shsu.edu), *Visiting Assistant Professor of Art*, *Department of Art*, MFA, Rutgers, The St Un of Nj; BFA, Univ of Houston-Main

Emily Ann Peacock, MFA (stdeap16@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BS, Sam Houston State University

Patricia Kay Ramsay, MFA (pxr015@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Syracuse University; BFA, The University of the Arts

Tracy Ann Robbins, MFA (tar056@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Cincinnati; BFA, Art Academy of Cincinnati

Tony R. Shipp, MFA (art_trs@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Florida; BA, Montana State Univ-Billings

Jessica Annie Simorte, MFA (jxs117@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Cincinnati; BA, University of Saint Mary

Chelsea Brieanne Taylor, MFA (cbt012@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Colorado; BFA, Sam Houston State University

Cammie Jo Tipton, MA (cjt060@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Univ of Houston-Main; BA, Wesleyan College

Walton A Watkins, MFA (watkins@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Univ of Tennessee-Knoxville; MA, Northwestern St Un of Louisana; BA, Northwestern St Un of Louisana

Edith Carol Wells, MFA (ediewells@shsu.edu), *Assistant Professor of Practice in Art*, *Department of Art*, MFA, Goddard College; MA, Southwest Baptist Theo Seminar; BS, Auburn University

Willie Royce Williams, MFA (wrw010@shsu.edu), *Professor of Practice of Art*, *Department of Art*, MFA, Univ of Southern California; BFA, Texas A&M-Kingsville

Martha E Willis, MA (mew055@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Univ of Houston-Clear Lake; BA, Univ of Houston-Clear Lake

Erin Yerby, PHD (exy017@shsu.edu), *Lecturer-Pool Faculty of Arts*, *Department of Art*, PHD, Columbia University; MFA, Virginia Commonwealth Univ; MPHIL, Columbia University; AM, Columbia University; MA, Univ of Minnesota; MTS, Duke University; BA, Colorado College

Bachelor of Arts, Major in Art

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-art/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Art		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Art Core		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required		
Select 3 Art History Advanced hours from:		3
ARTS 3382	The History Of Animation	
ARTS 3383	Design History	
ARTS 3386	Ancient Greek and Roman Art	
ARTS 3387	Renaissance Art History	
ARTS 3388	Art and Culture in Context	
ARTS 4381	History of Photography	
ARTS 4384	Modern Art Before 1945	
ARTS 4385	Art Since 1945	
ARTS 4387	History Of Mexican Art	
Major: Prescribed Electives		
Select 18 hours Art Advanced Electives from:		18
ARTS 3307	Performance and Video Art	
ARTS 3310	Printmaking	
ARTS 3314	Intermediate Studio	
ARTS 3317	Life Drawing II	
ARTS 3318	Sculpture I	
ARTS 3320	Ceramics I	
ARTS 3322	Typography	

ARTS 3343	3D Modeling and Animation I	
ARTS 3375	Web Site Development	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	
ARTS 4311	Advanced Studio	
ARTS 4316	Advanced Drawing	
ARTS 4318	Sculpture II	
ARTS 4320	Ceramics II	
ARTS 4331	Illustration	
Minor: Required		
Minor [3]		18
Electives: General		
General Electives		6
Total Hours		**120**

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

3 BA Art majors may minor in Art History or in programs outside of the Department of Art. BA Art majors may not minor in Secondary Education, Graphic Design, Photography, Three-Dimensional Studio Art, or Two-Dimensional Studio Art. To minor in Art History, a BA Art major must complete all of the requirements of the major, plus at least 12 hours of Art History not included in the major requirements.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must earn a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must earn a 2.0 minimum SHSU major GPA in all major coursework (SHSU only).

A total of 42 advanced hours are required for the BA. Thirty-three of these advanced hours are taken in the major. Nine advanced hours should be taken in the minor, or electives.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-art/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	ARTS 2375	3
ARTS 1319	3	ARTS 3305	3
ARTS 3318 or 3320	3	ARTS 3307 or 3310	3
ARTS 3385	3	General Electives	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
Art Advanced Electives[3]	6	Component Area VII (p. 90)	3
Art History Advanced Electives[4]	3	Art Advanced Electives[3]	6
Minor[5]	3	Minor[5]	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
Component Area IX (p. 91)	3	Component Area IX (p. 91)	1
Art Advance Electives[3]	3	Art Advanced Electives[3]	3
Minor[5]	6	General Electives	3
		Minor[5]	6
	15		**16**

Total Hours: 120

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
3 See Art Advanced Electives course listing below.
4 See Art History Advanced Electives course listing below.
5 BA Art majors may minor in Art History or in programs outside of the Department of Art. BA Art majors may not minor in Secondary Education, Graphic Design, Photography, Three-Dimensional Studio Art, or Two-Dimensional Studio Art. To minor in Art History, a BA Art major must complete all of the requirements of the major, plus at least 12 hours of Art History not included in the major requirements.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A total of 42 advanced hours are required for the BA. Thirty-three of these advanced hours are taken in the major. Nine advanced hours should be taken in the minor, or electives.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Code	Title	Hours
Art Advanced Electives [3]		
ARTS 3307	Performance and Video Art	3
ARTS 3310	Printmaking	3
ARTS 3314	Intermediate Studio	3
ARTS 3317	Life Drawing II	3
ARTS 3318	Sculpture I	3
ARTS 3320	Ceramics I	3
ARTS 3322	Typography	3
ARTS 3343	3D Modeling and Animation I	3
ARTS 3375	Web Site Development	3
ARTS 4305	Advanced Painting	3
ARTS 4307	Painting In Aquamedia	3
ARTS 4309	Book Arts	3
ARTS 4310	Advanced Printmaking	3
ARTS 4311	Advanced Studio	3
ARTS 4316	Advanced Drawing	3

ARTS 4318	Sculpture II	3
ARTS 4320	Ceramics II	3
ARTS 4331	Illustration	3

Code	Title	Hours
Art History Advanced Electives [4]		
ARTS 3382	The History Of Animation	3
ARTS 3383	Design History	3
ARTS 3386	Ancient Greek and Roman Art	3
ARTS 3387	Renaissance Art History	3
ARTS 3388	Art and Culture in Context	3
ARTS 4381	History of Photography	3
ARTS 4384	Modern Art Before 1945	3
ARTS 4385	Art Since 1945	3
ARTS 4387	History Of Mexican Art	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Art is designed to provide graduates with the following marketable skills:

- Critical thinking and problem solving
- Oral, written, and visual communications
- Teamwork and collaboration
- Digital technology
- Global and intercultural fluency

Bachelor of Fine Arts, Major Animation

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-animation/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Animation		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CSTE 1331	Visual Computing	3
or ENGL 3381	Introduction to Creative Writing: Fiction	
or ENGL 3382	Introduction to Creative Writing: Poetry	
or MCOM 2366	Film Appreciation	
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

Major: Art Core		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required		
ARTS 2317	Life Drawing I	3
ARTS 2343	Animation Concepts And Techniques	3
ARTS 2344	2-Dimensional Computer Animation	3
ARTS 3343	3D Modeling and Animation I	3
ARTS 3344	3D Modeling and Animation II	3
ARTS 3354	Experimental Animation	3
ARTS 3355	Animation Pre-Production	3
ARTS 3375	Web Site Development	3
ARTS 3382	The History Of Animation	3
ARTS 4350	Character Animation	3
ARTS 4355	Shading, Lighting & Rendering	3
ARTS 4358	Animation Portfolio	3
Electives: Advanced		
ARTS Advanced Electives		6
Minor: Not Required [3,4]		
Total Hours		**120**

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester hours.

4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU GPA in all major coursework.

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

The **BFA Portfolio Review** is the Department of Art's process of review and evaluation before admitting students into any of the department's Bachelor of Fine Arts programs.

Students who wish to pursue a BFA in Graphic Design, Studio Art, Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3

ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information, visit BFA Portfolio Review (http://www.shsu.edu/academics/art/review/).

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-animation/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 2317	3
ARTS 2343	3	ARTS 2344	3
ARTS 3318 or 3320	3	ARTS 2375	3
		ARTS 3305	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3307 or 3310	3	Component Area VII (p. 90)	3
ARTS 3343	3	ARTS 3344	3
ARTS 3354	3	ARTS 3355	3
ARTS 3375	3	ARTS 3385	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
ARTS 3382	3	Component Area IX (p. 91)	3
ARTS 4350	3	ARTS 4358	3
ARTS 4355	3	CSTE 1331, ENGL 3381, ENGL 3382, or MCOM 2366	3
ARTS Advanced Electives	3	ARTS Advanced Electives	3
	15		**15**

Total Hours: 120

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Animation is designed to provide graduates with the following marketable skills:

- Digital technology.
- Creative and critical thinking and problem solving.
- Teamwork and collaboration.
- Oral and written communications.
- Global and intercultural fluency.

Bachelor of Fine Arts, Major in Animation with Teaching Certification

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-animation/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Animation with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CSTE 1331	Visual Computing	3
or ARTS 4384	Modern Art Before 1945	
or ARTS 4385	Art Since 1945	
or ENGL 3381	Introduction to Creative Writing: Fiction	
or ENGL 3382	Introduction to Creative Writing: Poetry	
or MCOM 2366	Film Appreciation	
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Major: Required (Art Core)		
ARTS 1303	Art History Survey I [2]	3

ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required (Animation)		
ARTS 2317	Life Drawing I	3
ARTS 2343	Animation Concepts And Techniques	3
ARTS 2344	2-Dimensional Computer Animation	3
ARTS 3343	3D Modeling and Animation I	3
ARTS 3344	3D Modeling and Animation II	3
ARTS 3354	Experimental Animation	3
ARTS 3355	Animation Pre-Production	3
ARTS 3375	Web Site Development	3
ARTS 3382	The History Of Animation	3
ARTS 4350	Character Animation	3
ARTS 4355	Shading, Lighting & Rendering	3
ARTS 4358	Animation Portfolio	3
Teaching Certification		
ARTS 3330	Methods in Art Education	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
READ 4378	Multiple Literacies in Secondary Education	3
Student Teaching		
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
Minor: Not Required [3,4]		
Total Hours		**138**

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major.

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must meet a 2.75 minimum overall GPA in all Education coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn a 2.75 minimum GPA (overall or last 60) to earn teacher certification.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

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Students who wish to pursue a BFA in Graphic Design, Studio Art, Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information, visit BFA Portfolio Review (http://www.shsu.edu/academics/art/review/).

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-animation/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 2317	3
ARTS 3318 or 3320	3	ARTS 2344	3
ARTS 2343	3	ARTS 2375	3
		ARTS 3305	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3307 or 3310	3	Component Area VII (p. 90)	3
ARTS 3343	3	ARTS 3344	3

ARTS 3354	3	ARTS 3355	3
ARTS 3375	3	ARTS 3385	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
ARTS 3382	3	Component Area IX (p. 91)	3
ARTS 4350	3	ARTS 3330	3
ARTS 4355	3	READ 4378	3
CISE 3384	3	Degree Specific Requirements[3]	3
	15		**15**

Fifth Year

Fall	Hours	Spring	Hours
ARTS 4358	3	CIEE 4392	3
CISE 4364	3	CISE 4394	3
CISE 4379	3	CISE 4396	3
	9		**9**

Total Hours: 138

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.

3 Select one course (3 SCH) from below list of Degree Specific Requirements.

Code	Title	Hours
Degree Specific Requirements [3]		
ARTS 4384	Modern Art Before 1945	3
ARTS 4385	Art Since 1945	3
CSTE 1331	Visual Computing	3
ENGL 3381	Introduction to Creative Writing: Fiction	3
ENGL 3382	Introduction to Creative Writing: Poetry	3
MCOM 2366	Film Appreciation	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must meet a 2.75 minimum overall GPA in all Education coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn a 2.75 minimum GPA (overall or last 60) to earn teacher certification.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

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BFA Requirements

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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The BFA in Animation with Teaching Certification is designed to provide graduates with the following marketable skills:

- Digital technology.
- Creative and critical thinking and problem solving.
- Teamwork and collaboration.
- Oral and written communications.
- Global and intercultural fluency.

Bachelor of Fine Arts, Major in Graphic Design

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-graphic-design/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Graphic Design		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3

ARTS 2313	Foundations In Digital Art	3
Major: Required (Art Core)		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3310	Printmaking	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required (Graphic Design)		
ARTS 2323	Principles Of Graphic Design	3
ARTS 3322	Typography	3
ARTS 3323	Graphic Design In Context	3
ARTS 3324	Corporate Identity Design	3
ARTS 3326	Graphic Design Production	3
ARTS 3335	Packaging Design	3
ARTS 3353	Motion Graphics	3
ARTS 3383	Design History	3
ARTS 4323	Senior Studio In Graphic Design	3
ARTS 4325	Advanced Typographic Design	3
ARTS 4331	Illustration	3
ARTS 4333	Interactive Design	3
ARTS 4343	Advanced Interactive Design	3
ARTS 4385	Art Since 1945	3
Electives: General		
General Electives		3
Minor: Not Required [3,4]		
Total Hours		**120**

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

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BFA Requirements

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information, visit BFA Portfolio Review (http://www.shsu.edu/academics/art/review/).

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First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 2375	3
ARTS 2323	3	ARTS 3305	3
ARTS 3318 or 3320	3	ARTS 3322	3
		ARTS 3385	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3307 or 3310	3	Component Area VII (p. 90)	3
ARTS 3323	3	ARTS 3324	3
ARTS 3326	3	ARTS 3335	3
ARTS 4333	3	ARTS 4343	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
ARTS 3353	3	Component Area IX (p. 91)	3
ARTS 3383	3	ARTS 4323	3
ARTS 4325	3	ARTS 4331	3

ARTS 4385	3 General Electives	3
	15	**15**

Total Hours: 120

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

Notes

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Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

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The BFA in Graphic Design is designed to provide graduates with the following marketable skills:

- Digital technology.
- Creative and critical thinking and problem solving.
- Teamwork and collaboration.
- Oral, written, and visual communications.
- Global and intercultural fluency.

Bachelor of Fine Arts, Major in Graphic Design with Teaching Certification

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-graphic-design/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Graphic Design with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Major: Required (Art Core)		
ARTS 1303	Art History Survey I [2]	3

ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required (Graphic Design)		
ARTS 2323	Principles Of Graphic Design	3
ARTS 3322	Typography	3
ARTS 3323	Graphic Design In Context	3
ARTS 3324	Corporate Identity Design	3
ARTS 3326	Graphic Design Production	3
ARTS 3335	Packaging Design	3
ARTS 3353	Motion Graphics	3
ARTS 3383	Design History	3
ARTS 4323	Senior Studio In Graphic Design	3
ARTS 4325	Advanced Typographic Design	3
ARTS 4331	Illustration	3
ARTS 4333	Interactive Design	3
ARTS 4343	Advanced Interactive Design	3
ARTS 4385	Art Since 1945	3
Teaching Certification		
ARTS 3330	Methods in Art Education	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
READ 4378	Multiple Literacies in Secondary Education	3
Student Teaching		
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
Minor: Not Required [3,4]		
Total Hours		**141**

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major.

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

4 All minors can be paired with this degree program.

Notes

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Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must meet a 2.75 minimum overall GPA in all Education coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or last 60 hours) to earn teacher certification.

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 2375	3
ARTS 2323	3	ARTS 3305	3
ARTS 3318 or 3320	3	ARTS 3322	3
		ARTS 3385	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3307 or 3310	3	Component Area VII (p. 90)	3
ARTS 3323	3	ARTS 3324	3
ARTS 3326	3	ARTS 3335	3

ARTS 4333	3	ARTS 4343	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area IX (p. 91)	3
Component Area VIII (p. 90)	3	ARTS 3330	3
ARTS 3353	3	ARTS 4323	3
ARTS 3383	3	ARTS 4331	3
ARTS 4325	3	READ 4378	3
CISE 3384	3		
	18		**15**

Fifth Year

Fall	Hours	Spring	Hours
ARTS 4385	3	CIEE 4392	3
CISE 4364	3	CISE 4394	3
CISE 4379	3	CISE 4396	3
	9		**9**

Total Hours: 141

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must meet a 2.75 minimum overall GPA in all Education coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or last 60 hours) to earn teacher certification.

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The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3

ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Graphic Design with Teaching Certification is designed to provide graduates with the following marketable skills:

- Digital technology.
- Creative and critical thinking and problem solving.
- Teamwork and collaboration.
- Oral, written, and visual communications.
- Global and intercultural fluency.

Bachelor of Fine Arts, Major in Photography

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-photography/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Photography		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Major: Art Core		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	

ARTS 3385	Art History Survey II	3
Major: Required		
ARTS 2365	Analog Photography	3
ARTS 3364	Photography Seminar	3
ARTS 3368	Photographic Lighting I (Junior)	3
ARTS 3370	Digital Photography & Imaging	3
ARTS 3374	Alternative Photo Processes	3
ARTS 4315	Professional Practices in Art	3
ARTS 4372	Photographic Narratives	3
ARTS 4373	Contemporary Issues in Photography	3
ARTS 4381	History of Photography	3
ARTS 4385	Art Since 1945	3
Major: Prescribed Electives		
Advanced Photography Electives [3]		9
ARTS 3314	Intermediate Studio	
ARTS 3360	Photographic Printing	
ARTS 4019	Special Topic	
ARTS 4079	Independent Study	
ARTS 4311	Advanced Studio	
ARTS 4368	Photographic Lighting II	
ARTS 4371	Human Form: A Photographic Study	
Advanced Art Electives		3
Electives: General		
General Electives		3
Minor: Not Required [4,5]		
Total Hours		**120**

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
3 Advanced Photography Electives, select 3 courses to satisfy requirement.
4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

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The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3

ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information, visit BFA Portfolio Review (http://www.shsu.edu/academics/art/review/).

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-photography/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1316	3
ARTS 1315	3	ARTS 2313	3
		ARTS 2365	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 1303[2]	3
ARTS 2375	3	ARTS 3305	3
ARTS 3318 or 3320	3	ARTS 3307 or 3310	3
		ARTS 3370	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3364	3	Component Area VII (p. 90)	3
ARTS 3385	3	ARTS 3368	3
Advanced Art Electives	3	ARTS 4372	3
Advanced Photography Electives[3]	3	ARTS 4373	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
ARTS 3374	3	Component Area IX (p. 91)	3
ARTS 4385	3	ARTS 4315	3
General Electives	3	ARTS 4381	3
Advanced Photography Electives[3]	3	Advanced Photography Electives[3]	3
	15		**15**

Total Hours: 120

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

[3] Select three courses from the following Advanced Photography Electives:ARTS 3314, ARTS 3360, ARTS 4019, ARTS 4079, ARTS 4311, ARTS 4368, ARTS 4371.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Photography is designed to provide graduates with the following marketable skills:

- Digital technology.
- Critical and creative thinking and problem solving.
- Oral, written, and visual communications.
- Teamwork and collaboration.
- Global and intercultural fluency.

Bachelor of Fine Arts, Major in Photography with Teaching Certification

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-photography/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Photography with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Major: Required (Art Core)		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3

or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required (Photography)		
ARTS 2365	Analog Photography	3
ARTS 3364	Photography Seminar	3
ARTS 3368	Photographic Lighting I	3
ARTS 3370	Digital Photography & Imaging	3
ARTS 3374	Alternative Photo Processes	3
ARTS 4315	Professional Practices in Art	3
ARTS 4372	Photographic Narratives	3
ARTS 4373	Contemporary Issues in Photography	3
ARTS 4381	History of Photography	3
ARTS 4385	Art Since 1945	3
Photography Advanced Electives		
Select three from the following:		9
ARTS 3314	Intermediate Studio	
ARTS 3360	Photographic Printing	
ARTS 4019	Special Topic	
ARTS 4079	Independent Study	
ARTS 4311	Advanced Studio	
ARTS 4368	Photographic Lighting II	
ARTS 4371	Human Form: A Photographic Study	
Teaching Certification		
ARTS 3330	Methods in Art Education	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
READ 4378	Multiple Literacies in Secondary Education	3
Student Teaching		
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
Minor: Not Required [3,4]		
Total Hours		**138**

1 MATH 1332 is recommended.

2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

4 All minors can be paired with degree program.

Notes

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Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and overall).

Students must earn an overall GPA of 2.75 (overall or last 60 hours) to earn teacher certification.

Students must earn a "C" or better in all Education coursework.

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-photography/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1316	3
ARTS 1315	3	ARTS 2313	3
		ARTS 2365	3
	12		**16**
Second Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 1303[2]	3
ARTS 2375	3	ARTS 3305	3
ARTS 3318 or 3320	3	ARTS 3307 or 3310	3
		ARTS 3370	3
	15		**16**
Third Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3364	3	Component Area VII (p. 90)	3
ARTS 3385	3	ARTS 3368	3
CISE 3384	3	ARTS 4372	3

Photography Advanced Electives[3]	3	ARTS 4373	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
ARTS 3330	3	Component Area IX (p. 91)	3
ARTS 3374	3	ARTS 4315	3
ARTS 4385	3	ARTS 4381	3
Photography Advanced Electives[3]	3	Photography Advanced Electives[3]	3
		READ 4378	3
	15		**18**

Fifth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CIEE 4392	3
CISE 4379	3	CISE 4394	3
		CISE 4396	3
	6		**9**

Total Hours: 138

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
3 See Photography Advanced Electives in the course listing below.

Code	Title	Hours
Photography Advanced Electives [3]		
Select three from the following:		
ARTS 3314	Intermediate Studio	3
ARTS 3360	Photographic Printing	3
ARTS 4019	Special Topic	3
ARTS 4079	Independent Study	1-3
ARTS 4311	Advanced Studio	3
ARTS 4368	Photographic Lighting II	3
ARTS 4371	Human Form: A Photographic Study	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and overall).

Students must earn an overall GPA of 2.75 (overall or last 60 hours) to earn teacher certification.

Students must earn a "C" or better in all Education coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

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BFA Requirements

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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The BFA in Photography with Teaching Certification is designed to provide graduates with the following marketable skills:

- Digital technology.
- Critical and creative thinking and problem solving.
- Oral, written, and visual communications.
- Teamwork and collaboration.
- Global and intercultural fluency.

Bachelor of Fine Arts, Major in Studio Art 2D Track

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-studio-art/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Studio Art 2D Track		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3

ARTS 2313	Foundations In Digital Art	3
Major: Art Core		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art [3]	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I [3]	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required		
ARTS 2317	Life Drawing I	3
ARTS 3307	Performance and Video Art [3]	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I [3]	3
or ARTS 3320	Ceramics I	
ARTS 4305	Advanced Painting	3
or ARTS 4310	Advanced Printmaking	
ARTS 4315	Professional Practices in Art (Senior)	3
ARTS 4316	Advanced Drawing	3
ARTS 4317	Museum And Gallery Practices	3
or ARTS 3314	Intermediate Studio	
ARTS 4318	Sculpture II	3
or ARTS 4320	Ceramics II	
ARTS 4385	Art Since 1945	3
ARTS 4389	Criticism and Theory In the Visual Arts	3
Major: Prescribed Electives		**9**
Select nine hours from the following:		
ARTS 3317	Life Drawing II	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	
ARTS 4311	Advanced Studio	
ARTS 4316	Advanced Drawing	
ARTS Advanced Electives		3
Electives: General		
General Electives		3
Minor: Not Required [4,5]		
Total Hours		**120**

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
3 Studio majors must take both (one is required in the BFA Core and one in the Major).
4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester hours.
5 All minors can be paired with this degree program.

Notes

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Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

BFA Requirements

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-studio-art/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 2317	3
ARTS 2375	3	ARTS 3305	3
ARTS 3385	3	ARTS 3307 or 3310[3]	3
		ARTS 3318 or 3320[3]	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3307 or 3310[3]	3	Component Area VII (p. 90)	3
ARTS 3318 or 3320[3]	3	ARTS 4305 or 4310	3
ARTS 4316	3	Advanced Art Electives	3

General Electives		3 Prescribed Electives[4]	3
		16	**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)		3 Component Area VII (p. 90)	3
ARTS 4317 or 3314		3 Component Area IX (p. 91)	3
ARTS 4385		3 ARTS 4315	3
Prescribed Electives[4]		3 ARTS 4318 or 4320	3
Prescribed Electives [4]		3 ARTS 4389	3
		15	**15**

Total Hours: 120

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
3 Studio majors must take both (one is required in the BFA Core and one in the Major).
4 Select nine hours from the below Prescribed Elective course list.

Code	Title	Hours
Prescribed Electives [4]		
ARTS 3317	Life Drawing II	3
ARTS 4305	Advanced Painting	3
ARTS 4307	Painting In Aquamedia	3
ARTS 4309	Book Arts	3
ARTS 4310	Advanced Printmaking	3
ARTS 4311	Advanced Studio	3
ARTS 4316	Advanced Drawing	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

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Students who wish to pursue a BFA in Graphic Design, Studio Art, Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3

ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information, visit BFA Portfolio Review (http://www.shsu.edu/academics/art/review/).

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

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The BFA in Studio Art 2D Track is designed to provide graduates with the following marketable skills:

- Creative and critical thinking and problem solving.
- Oral, written, and visual communications.
- Teamwork and collaboration.
- Global and intercultural fluency.
- Digital technology.

Bachelor of Fine Arts, Major in Studio Art 2D with Teaching Certification

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-studio-art/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Studio Arts 2D with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Major: Required (Art Core)		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art [3]	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I [3]	3

or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Prescribed Electives		
ARTS 2317	Life Drawing I	3
ARTS 3307	Performance and Video Art [3]	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I [3]	3
or ARTS 3320	Ceramics I	
ARTS 4305	Advanced Painting	3
or ARTS 4310	Advanced Printmaking	
ARTS 4315	Professional Practices in Art	3
ARTS 4316	Advanced Drawing	3
ARTS 4317	Museum And Gallery Practices	3
or ARTS 3314	Intermediate Studio	
ARTS 4318	Sculpture II	3
or ARTS 4320	Ceramics II	
ARTS 4385	Art Since 1945	3
ARTS 4389	Criticism and Theory In the Visual Arts	3
Select three of the following:		9
ARTS 3317	Life Drawing II	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	
ARTS 4311	Advanced Studio	
ARTS 4316	Advanced Drawing	
Teaching Certification		
ARTS 3330	Methods in Art Education	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
READ 4378	Multiple Literacies in Secondary Education	3
Student Teaching		
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
Minor: Not Required [4,5]		
Total Hours		**138**

1 MATH 1332 (http://catalog.shsu.edu/search/?P=MATH%201332) is recommended.

2 ARTS 1303 (http://catalog.shsu.edu/search/?P=ARTS%201303) satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.

3 Studio majors must take both ARTS 3307 OR ARTS 3310 and ARTS 3318 OR ARTS 3320 (one is required in the BFA Core and one in the Major).

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and overall).

Students must earn a "C" or better in all Education coursework.

Students must earn a 2.75 minimum GPA (overall or last 60 hours) to earn teacher certification.

BFA Requirements

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 2317	3
ARTS 2375	3	ARTS 3305	3
ARTS 3385	3	ARTS 3307 or 3310[3]	3
		ARTS 3318 or 3320[3]	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3

ARTS 3307 or 3310[3]		3 Component Area VII (p. 90)	3
ARTS 3318 or 3320[3]		3 ARTS 3330	3
ARTS 4316		3 ARTS 4305, 3317, 4307, 4309, 4310, 4311, 4316, or 3317	3
ARTS 4385		3 ARTS 4389	3
		16	**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)		3 Component Area VII (p. 90)	3
ARTS 4305, 3317, 4307, 4309, 4310, 4311, or 4316		3 Component Area IX (p. 91)	3
ARTS 4305, 3317, 4307, 4309, 4310, 4311, or 4316		3 ARTS 4305 or 4310	3
ARTS 4317 or 3314		3 ARTS 4318 or 4320	3
CISE 3384		3 READ 4378	3
		15	**15**

Fifth Year

Fall	Hours	Spring	Hours
ARTS 4315		3 CIEE 4392	3
CISE 4364		3 CISE 4394	3
CISE 4379		3 CISE 4396	3
		9	**9**

Total Hours: 138

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2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
3 Studio majors must take both ARTS 3307 OR ARTS 3310 and ARTS 3318 OR ARTS 3320 (one is required in the BFA Core and one in the Major).

Notes

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Students must earn a "C" or better in all Education coursework.

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3

ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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- Oral, written, and visual communications.
- Teamwork and collaboration.
- Global and intercultural fluency.
- Digital technology.

Bachelor of Fine Arts, Major in Studio Art 3D Track

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-studio-art/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Studio Art 3D Track		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Major: Required (Art Core)		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3310	Printmaking [3]	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I [3]	3

or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required (Art)		
ARTS 2317	Life Drawing I	3
ARTS 3310	Printmaking [3]	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I [3]	3
or ARTS 3320	Ceramics I	
ARTS 4315	Professional Practices in Art	3
ARTS 4317	Museum And Gallery Practices	3
or ARTS 3314	Intermediate Studio	
ARTS 4318	Sculpture II	3
ARTS 4320	Ceramics II	3
ARTS 4385	Art Since 1945	3
ARTS 4389	Criticism and Theory In the Visual Arts	3
Major: Prescribed Electives		
Select three hours from the following:		3
ARTS 3317	Life Drawing II	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	
ARTS 4316	Advanced Drawing	
Select nine hours from the following:		9
ARTS 3307	Performance and Video Art	
ARTS 4311	Advanced Studio	
ARTS 4318	Sculpture II	
ARTS 4320	Ceramics II	
Advanced Art Elective		3
Electives: General		
General Electives		3
Minor: Not Required [4,5]		
Total Hours		**120**

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
3 Studio majors must take both courses (one is required in the BFA Core and one in the Major).
4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
5 All minors can be paired with this degree program.

Notes

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Students must earn a 2.0 minimum SHSU GPA in all coursework.

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BFA Requirements

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Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area I (p. 88)	3
Component Area VII (p. 90)	3	Component Area IX (p. 91)	1
ARTS 1319	3	ARTS 2317	3
ARTS 2375	3	ARTS 3305	3
ARTS 3385	3	ARTS 3318 or 3320[3]	3
		ARTS 3307 or 3310[3]	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
ARTS 3307 or 3310[3]	3	Component Area VI (p. 90)	3
ARTS 3318 or 3320[3]	3	ARTS 3307 or 4311 (two courses)	3
ARTS 4305, 3317, 4307, 4309, 4310, or 4316	3	ARTS 3317, 4305, 4307, 4309, 4310, or 4316	3
General Electives	3	ARTS 4318 or 4320	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
ARTS 3307, 4311, 4318, or 4320	3	Component Area IX (p. 91)	3
ARTS 4317 or 3314	3	ARTS 4315	3
ARTS 4318	3	ARTS 4320	3

ARTS 4385		3 ARTS 4389	3
	15		**15**

Total Hours: 120

1 MATH 1332 is recommended.
2 ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
3 Studio majors must take both courses (one is required in the BFA Core and one in the Major).

Notes

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Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

BFA Requirements

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The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

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Code	Title	Hours
Bachelor of Fine Arts, Major in Studio Art 3D with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2-Dimensional and W.A.S.H. - 3-Dimensional and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Major: Required (Art Core)		
ARTS 1303	Art History Survey I [2]	3
ARTS 1319	Drawing II	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art [3]	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I [3]	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major: Required (Art)		
ARTS 2317	Life Drawing I	3
ARTS 3307	Performance and Video Art [3]	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I [3]	3
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ARTS 4315	Professional Practices in Art	3
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ARTS 4385	Art Since 1945	3
ARTS 4389	Criticism and Theory In the Visual Arts	3
Major: Prescribed Electives		
Select one of the following:		3
ARTS 3317	Life Drawing II	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	

ARTS 4316	Advanced Drawing	
Select three from the following:		9
ARTS 3307	Performance and Video Art	
ARTS 4311	Advanced Studio	
ARTS 4318	Sculpture II	
ARTS 4320	Ceramics II	
Teaching Certification		
ARTS 3330	Methods in Art Education	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
READ 4378	Multiple Literacies in Secondary Education	3
Student Teaching		
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
Minor: Not Required [4,5]		
Total Hours		**138**

1 MATH 1316 or MATH 1332 is recommended.
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3 Studio majors must take both ARTS 3307 OR ARTS 3310 and ARTS 3318 OR ARTS 3320 (one is required in the BFA Core and one in the Major).
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Art Foundation		
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First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
ARTS 1313	3	Component Area III (p. 89)	4
ARTS 1314	3	ARTS 1303[2]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area I (p. 88)	3
Component Area VII (p. 90)	3	Component Area IX (p. 91)	1
ARTS 2317	3	ARTS 3305	3
ARTS 2375	3	ARTS 3307 or 3310[3]	3
ARTS 3385	3	ARTS 3317	3
		ARTS 3318 or 3320[3]	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VI (p. 90)	3
ARTS 3307 or 3310[3]	3	Component Area VII (p. 90)	3
ARTS 3320 or 3318[3]	3	ARTS 4389	3
ARTS 4305, 3317, 4307, 4309, 4310, or 4316	3	ARTS 3307, 4311, 4318, or 4320	3
ARTS 4385	3	ARTS 3307, 4311, 4318, or 4320	3
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area VI (p. 90)	3
ARTS 3307, 4311, 4318, or 4320	3	Component Area IX (p. 91)	3
ARTS 4317 or 3314	3	ARTS 4320	3
ARTS 4318	3	READ 4378	3
CISE 3384	3	ARTS 3330	3
	15		**15**

Fifth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4394	3
ARTS 4315	3	CISE 4396	3
CISE 4379	3	CIEE 4392	3
	9		**9**

Total Hours: 138

[1] MATH 1316 (http://catalog.shsu.edu/search/?P=MATH%201316) or MATH 1332 (http://catalog.shsu.edu/search/?P=MATH%201332) is recommended.
[2] ARTS 1303 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
[3] Studio majors must take both ARTS 3307 OR ARTS 3310 and ARTS 3318 OR ARTS 3320 (one is required in the BFA Core and one in the Major).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and overall).

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or last 60 hours) to earn teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

The **BFA Portfolio Review** is the Department of Art's process of review and evaluation before admitting students into any of the department's Bachelor of Fine Arts programs.

Students who wish to pursue a BFA in Graphic Design, Studio Art, Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information, visit BFA Portfolio Review (http://www.shsu.edu/academics/art/review/).

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Studio Art 3D Track with Teaching Certification is designed to provide graduates with the following marketable skills:

- Creative and critical thinking and problem solving.
- Oral, written, and visual communications.
- Teamwork and collaboration.

- Global and intercultural fluency.
- Digital technology.

Minor in Art History

Students seeking a Minor in Art History are required to complete:

Code	Title	Hours
Minor in Art History		
Required Courses		
ARTS 1303	Art History Survey I	3
ARTS 3385	Art History Survey II	3
Select four of the following:		12
ARTS 3382	The History Of Animation	
ARTS 3383	Design History	
ARTS 3386	Ancient Greek and Roman Art	
ARTS 3387	Renaissance Art History	
ARTS 3388	Art and Culture in Context	
ARTS 4317	Museum And Gallery Practices	
ARTS 4381	History of Photography	
ARTS 4384	Modern Art Before 1945	
ARTS 4385	Art Since 1945	
ARTS 4387	History Of Mexican Art	
ARTS 4389	Criticism and Theory In the Visual Arts	
Total Hours		**18**

Minor in Graphic Design

The Graphic Design minor requires 18 hours (6 courses). Three courses are predetermined with three others selected from a list of electives.

Code	Title	Hours
Minor in Graphic Design		
Required Courses		
ARTS 2313	Foundations In Digital Art	3
ARTS 2323	Principles Of Graphic Design	3
ARTS 3322	Typography	3
Select three of the following:		9
ARTS 3323	Graphic Design In Context	
ARTS 3324	Corporate Identity Design	
ARTS 3326	Graphic Design Production	
ARTS 3375	Web Site Development	
ARTS 3383	Design History	
ARTS 4325	Advanced Typographic Design	
ARTS 4333	Interactive Design	
Total Hours		**18**

Notes

The Minor in Graphic Design is designed to provide students with a general understanding of typography, the use of image and color, concept development, software skills, and the language of graphic design.

BA Art majors may not minor in Graphic Design.

Prerequisites: ARTS 1313, ARTS 1314, and ARTS 1315, W.A.S.H. (Workshop in Art Studio and History), are listed as prerequisites for the courses in the minor; however, the W.A.S.H. prerequisites will be waived for minors in Graphic Design. Minors in Graphic Design will have these prerequisites waived

upon meeting with a departmental advisor. In addition, portfolio reviews that are required for majors are not required for minors. A Graphic Design minor may not, however, declare a major in Graphic Design without approval of the chair and completion of the BFA prerequisites and portfolio reviews.

Minor in Photography

A Minor in Photography consists of the following courses:

Code	Title	Hours
Minor in Photography		
Required Courses		
ARTS 2365	Analog Photography	3
ARTS 2370	Digital Photography and Media	3
ARTS 2375	Photographic Concepts	3
Select nine hours from:		9
ARTS 3360	Photographic Printing	
ARTS 3364	Photography Seminar	
ARTS 3368	Photographic Lighting I	
ARTS 3370	Digital Photography & Imaging	
ARTS 3374	Alternative Photo Processes	
ARTS 4368	Photographic Lighting II	
ARTS 4371	Human Form: A Photographic Study	
ARTS 4372	Photographic Narratives	
ARTS 4373	Contemporary Issues in Photography	
ARTS 4381	History of Photography	
Total Hours		**18**

Notes

Other advanced photography courses may be taken but require additional prerequisites.

BA Art majors may not minor in Photography.

Prerequisites: ARTS 1313, ARTS 1314, and ARTS 1315, W.A.S.H. (Workshop in Art Studio and History), are listed as prerequisites for the courses in the minor; however, the W.A.S.H. prerequisites will be waived for minors in Photography. Minors in Photography will have these prerequisites waived upon meeting with a departmental advisor. In addition, portfolio reviews that are required for majors are not required for minors. A Photography minor may not, however, declare a major in Photography without approval of the chair and completion of the BFA prerequisites and portfolio reviews.

Minor in Three-Dimensional Studio Art

Students seeking a Minor in Three-Dimensional Studio Art are required to complete:

Code	Title	Hours
Minor in Three-Dimensional Studio Art		
Required Courses		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
Select nine hours from:		9
ARTS 3314	Intermediate Studio	
ARTS 3318	Sculpture I	
ARTS 3320	Ceramics I	
ARTS 4311	Advanced Studio	
ARTS 4318	Sculpture II	
ARTS 4320	Ceramics II	
Total Hours		**21**

Note: BA Art majors and BFA Studio Art majors may not minor in Three-Dimensional Studio Art.

Minor in Two-Dimensional Studio Art

Students seeking a Minor in Two-Dimensional Studio Art are required to complete:

Code	Title	Hours
Minor in Two-Dimensional Studio Art		
Required Courses		
ARTS 1313	W.A.S.H. - 2-Dimensional	3
ARTS 1314	W.A.S.H. - 3-Dimensional	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
Select nine hours from:		9
ARTS 3305	Painting I	
ARTS 3310	Printmaking	
ARTS 3314	Intermediate Studio	
ARTS 3317	Life Drawing II	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4311	Advanced Studio	
ARTS 4310	Advanced Printmaking	
ARTS 4316	Advanced Drawing	
ARTS 4331	Illustration	
Total Hours		**21**

Note: BA Art majors and BFA Studio Art majors may not minor in Two-Dimensional Studio Art.

Department of Dance

Chair: Jennifer Pontius (DNC_JKP@shsu.edu)

Contact Information: (936) 294-1875 or Dance (shsudance@shsu.edu)

Website: Department of Dance (http://www.shsu.edu/academics/dance/)

Mission

The Department of Dance at Sam Houston State University delivers a dynamic, challenging experience that integrates creativity, performance, and scholarly pursuits designed to prepare each student for a 21st-century career in dance.

Academic Programs

The BFA program provides intensive study in modern, ballet, and jazz techniques; multiple performance opportunities; exciting guest artists and choreographers; opportunities for choreographic exploration, which include the integration of media into the creative process; and a solid academic grounding in coursework, which ranges from dance history, to criticism and analysis, to dance and technology. Admission to the BFA program is by audition only. The audition schedule is posted on the dance department's website (http://www.shsu.edu/academics/dance/future-students/auditions.html). Dance majors are required to meet with dance faculty for advisement prior to each semester.

Highlights

The Department of Dance at Sam Houston State University:

- is an accredited member of the National Association of Schools of Dance (NASD);
- was identified as one of the ten top dance programs in the country by Dance Teacher Magazine;
- is housed in the beautiful James and Nancy Gaertner Performing Arts Center, which includes four large studios with sprung floors, a state of the art dance theater, a 19-station Mac lab, a fully-equipped Pilates/conditioning studio, and spacious dressing rooms with showers;
- is an active member of the American College Dance Association (ACDA);
- has its choreography created by students and faculty regularly selected for gala presentation in American College Dance Association annual conferences;
- has been selected to present both student and faculty choreography at The Kennedy Center National ACDA conference, most recently in the spring of 2018;
- has presented work at the internationally renowned dance festival at Jacob's Pillow;
- has alumni of the program performing with diverse professional dance companies, including Pilobolus, The Houston Met, Hopestone, NobleMotion Dance, and Blue Lapis Light; and
- regularly hosts a wide variety of guest artists for master classes and residencies to choreograph works featuring dance majors, including Sidra Bell, Joshua Peugh, Mike Esperanza, The Houston Met, Dominic Walsh Dance Theatre, Paul Taylor II, Houston Ballet II, The Dance Gallery, Jane Weiner, Ben Stevenson, Bill Evans, Rennie Harris, Marlies Yearby, Astrid von Ussar, and Manuel Vignoulle.

Career Opportunities

- Choreographers
- Dance educators at all levels
- Public high school teachers
- Studio owners and teachers
- Performing artists in dance
- Artistic directors of dance companies
- Performing arts presenters and administrators

Suggested Minors

The BFA in Dance does not require a minor. Many dance majors, however, choose to pursue a second area of study to broaden their education, either as a second major or as a minor. Depending on a student's career goals, pursuit of a minor in business, secondary education, biology, or another academic discipline will be appropriate.

- Bachelor of Fine Arts, Major in Dance (p. 200)
- Minor in Arts and Popular Culture (p. 147)
- Minor in Dance (p. 202)

Student Organizations

Chi Tau Epsilon, the prestigious national dance honor society, recognizes, supports, and promotes superior achievement in dance and in the performing arts. Membership in the society is recorded on the student's transcript. Each year, Chi Tau Epsilon is an active student organization, sponsoring the student choreography showcase, Dances @ 8; conducting recruitment workshops for the department; and sponsoring community support activities that include Adopt a Highway, food drives, and participation in the Special Olympics. Chi Tau Epsilon also awards annual scholarships for outstanding choreographic and academic achievement.

Scholarships

The Department of Dance awards numerous scholarships ranging from $500 to $3,000 per academic year. Approximately $20,000 in performance-based scholarships is awarded each year. In addition, the Mary Ella Montague Endowed Scholarship is awarded to the outstanding returning dance major each year, and the Kelley Barber Award is given annually to a dance major for outstanding performance. Dance majors may also qualify for the Theatre and Dance Endowed Scholarship and the Nancy Gaertner Performing Arts Scholarship. For scholarship consideration, all students must apply through Scholarships4Kats. (http://www.shsu.edu/dept/financial-aid/scholarships/)

Director/Chair: **Jennifer Karen Pontius**

Rasika Nitin Borse, MFA (rnb020@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BA, Univ of Calgary

Barry W Doss, BA (bwd006@shsu.edu), *Dance Costume Design Special't, Adjunct Faculty*, *Department of Dance*, BA, Texas Christian University

Travis Dale Lake, MFA (tlake@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, Univ of Utah

Adele Nickel, MFA (axn051@shsu.edu), *Assistant Professor of Dance*, *Department of Dance*, MFA, Univ of Washington; BA, New School/Soc Rsrch

Andrew M Noble, MFA (amn008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Florida State University; BA, Univ of South Florida

Dionne L Noble, MFA (dln008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Univ of Utah; BA, Univ of South Florida

Tyler Brandon Orcutt, BFA (tbo006@shsu.edu), *Lecturer of Dance*, *Department of Dance*, BFA, Univ of South Florida

Jennifer Karen Pontius, MFA (dnc_jkp@shsu.edu), *Associate Professor and Chair of Dance*, *Department of Dance*, MFA, Florida State University; MA, California St Un-Dominguez Hil; BA, Univ of Alabama-Birmingham

Jacob Daniel Regan, MFA (jacobregan@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, East Carolina Univ

Bachelor of Fine Arts, Major in Dance

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-dance/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Dance		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
DANC 1101	Dance Workshop (4 semesters)	4
DANC 1201	Pilates-Based Conditioning for Dance	2
Two semesters of:		6
DANC 1333	Ballet Dance Technique I	
or DANC 2333	Ballet Dance Technique II	
or DANC 2373	World Dance: Exploring Cultures	
Two semesters of:		6
DANC 1334	Modern Dance Technique I	
or DANC 2334	Modern Dance Technique II	
or DANC 2373	World Dance: Exploring Cultures	
Four semesters of:		12
DANC 3333	Ballet Dance Technique III	
or DANC 4330	Repertory	
or DANC 4333	Ballet Dance Technique IV	
Four semesters of:		12
DANC 3334	Modern Dance Technique III	
or DANC 4330	Repertory	
or DANC 4334	Modern Dance Technique IV	
DANC 2376	Choreography I	3
DANC 3335	Jazz Dance Technique III	3
DANC 3336	Improvisation & Partnering	3
DANC 3372	Dance History	3
DANC 3374	Principles Of Dance Technique	3
DANC 3376	Choreography II	3
DANC 4372	Dance Criticism & Analysis	3
DANC 4376	Choreography III	3
DANC 4377	Senior Studio	3
DANC 4384	Dance Pedagogy	3
DANC 4388	Dance and Technology	3
DANC 4389	Career Resources in Dance	3
Minor: Not Required [2,3]		
Total Hours		**120**

1 MATH 1332 is recommended.

2 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

[3] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Only grades of C or higher in all dance courses will apply towards the BFA in Dance.

Undergraduate admission to the BFA in Dance is by audition **only**. Please visit our Admission/Audition page (http://www.shsu.edu/academics/dance/future-students/auditions.html) for more information and dates.

Not all dance courses are offered each semester. Consult the *Schedule of Classes* and your dance faculty advisor before registration.

Sophomore Gate: In conjunction with enrollment in DANC 3376 (Choreography II), each student will be assessed for continuation as a major in the BFA in Dance program. Under the guidance of assigned dance faculty mentors, each student will choreograph a 3-5 minute solo, to be performed at the end of the semester in a jury assessed by the dance faculty. The faculty will at that time also review the student's grades in dance courses and the student's progress in technique and choreography. Possible outcomes for the Sophomore Gate are: pass; probation for one semester, with specified requirements to fulfill, including a repeat of the Sophomore Gate process; or fail. Any students who do not pass will not continue in the BFA curriculum but will be advised they may apply hours earned in dance to a dance minor.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-dance/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area IX (p. 91)	4
Component Area V (p. 90)	3	DANC 1101	1
DANC 1101	1	DANC 1333, 2333, or 2373	3
DANC 1333, 2333, or 2373	3	DANC 1334, 2334, or 2373	3
DANC 1334, 2334, or 2373	3		
	16		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
DANC 1101	1	DANC 1101	1
DANC 1201	2	DANC 3333, 4330, or 4333	3
DANC 2376	3	DANC 3335	3
DANC 3334, 4330, or 4334	3	DANC 3376	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VII (p. 90)	3
DANC 3334, 4330, or 4334	3	DANC 3333, 4330, or 4333	3
DANC 3336	3	DANC 3372	3
DANC 3374	3	DANC 4376	3
DANC 4388	3		
	16		**12**

Fourth Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area IV (p. 89)		3 Component Area VIII (p. 90)	3
DANC 3333, 4330, or 4333		3 DANC 3333, 4330, or 4333	3
DANC 3334, 4330, or 4334		3 DANC 3334, 4330, or 4334	3
DANC 4377		3 DANC 4372	3
DANC 4384		3 DANC 4389	3
		15	**15**

Total Hours: 120

[1] MATH 1332 is recommended.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 3.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 3.0 minimum SHSU major GPA in all major coursework.

Only grades of C or higher in all dance courses will apply towards the BFA in Dance.

Undergraduate admission to the BFA in Dance is by audition **only**. Please visit our Admission/Audition page for more information and dates.

Not all dance courses are offered each semester. Consult the *Schedule of Classes* and your dance faculty advisor before registration.

Sophomore Gate: In conjunction with enrollment in DANC 3376 (Choreography II), each student will be assessed ~~by faculty to determine the student's progress and potential~~ for continuation as a major in the ~~completion of the~~ BFA in Dance program. Under the guidance of assigned dance faculty mentors, each student will choreograph a 3-5 minute solo, to be performed at the end of the semester in a jury assessed by the dance faculty. The faculty will at that time also review the student's grades in dance courses and the student's progress in technique and choreography. Possible outcomes for the Sophomore Gate are: pass; probation for one semester, with specified requirements to fulfill, including a repeat of the Sophomore Gate process; or fail. Any students who do not pass will not continue in the BFA curriculum but will be advised they may apply hours earned in dance to a dance minor.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Dance is designed to provide graduates with the following marketable skills:

- Teach ballet, modern, jazz, and other dance techniques.
- Choreography skills for creating dance works appropriate for a wide range of venues and dancers.
- Critical and analytical writing skills.
- Work effectively in different roles within an organization: as a leader or director, as a responsible member of a team, and independently.
- Creative problem-solving skills.
- Time management skills.
- Embodied experience with process that must result in a product (rehearsals for a public concert).

Minor in Dance

Dance minors take 18 - 21 semester credit hours total.

Code	Title	Hours
Minor in Dance		
Required Courses		
Select three courses from the following:		6-9
DANC 1201	Pilates-Based Conditioning for Dance	
DANC 1204	Folk Dance Forms	
DANC 1206	Theater Dance Forms	
DANC 1221	Introduction to Ballet Dance Technique	
DANC 1222	Introduction to Modern Dance Technique	
DANC 1223	Jazz Dance Technique I	
DANC 1228	Tap Dance Technique I	
DANC 1229	Hip Hop Dance Technique	
DANC 1333	Ballet Dance Technique I [1]	
DANC 1334	Modern Dance Technique I [1]	
DANC 2223	Jazz Dance Technique II	
DANC 2333	Ballet Dance Technique II [1]	
DANC 2334	Modern Dance Technique II [1]	
DANC 2228	Tap Dance Technique II	
DANC 3333	Ballet Dance Technique III [1]	
DANC 3334	Modern Dance Technique III [1]	
DANC 3335	Jazz Dance Technique III [1]	
DANC 3336	Improvisation & Partnering [1]	
DANC 4333	Ballet Dance Technique IV [1]	
DANC 4334	Modern Dance Technique IV [1]	
DANC 4335	Jazz Dance Technique IV [1]	
DANC 1372	Dance and Popular Culture	3
Choose one of the following:		3
DANC 2373	World Dance: Exploring Cultures	
DANC 2376	Choreography I [2]	
Advanced Hours Requirement		**6**
DANC 3372	Dance History	
DANC 3376	Choreography II [2]	
DANC 4372	Dance Criticism & Analysis	
DANC 4384	Dance Pedagogy	
DANC 4388	Dance and Technology	
Total Hours		**18-21**

1 Placement audition and departmental approval are required.

2 DANC 2376 is a prerequisite for DANC 3376.

Department of Mass Communication

Chair: Nam Young Kim, Ph.D. (nyk001@shsu.edu)

Contact Information: (936) 294-4445; Dan Rather Communications Building 212

Website: Department of Mass Communication (http://www.shsu.edu/academics/mass-communication/)

By providing one-on-one contact with faculty from a variety of theoretical and practical backgrounds, the Department of Mass Communication exposes students to a combination of hands-on production classes, professional development classes, and traditional theory/criticism classes. The Mass Communication program at Sam Houston State University offers a unique educational experience for students. Our graduates develop:

1. Media literacy skills that are increasingly required in our media-saturated contemporary experience, and
2. Skills especially applicable to the emerging technologically-driven marketplace.

There are seven undergraduate MCOM programs:

- Bachelor of Arts, Major in Mass Communication: Multiplatform Journalism
- Bachelor of Arts, Major in Mass Communication: Broadcast Production
- Bachelor of Arts, Major in Mass Communication: Film
- Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising
- Bachelor of Fine Arts, Major in Film and Television Production
- Bachelor of Arts, Double Major in Education and Mass Communication: Journalism
- Bachelor of Science, Major in Agricultural Communication (School of Agricultural Sciences)

There are three undergraduate MCOM minors:

- Minor in Mass Communication
- Minor in Film Studies
- Minor in Sports Media

Graduates can enter a variety of fields, including but not limited to video production, print and television news, broadcast and cable sales, media management, advertising, digital media production, public relations, and corporate media. In addition, students may supplement their degrees with educational requirements that allow them to become certified media specialists in public school systems with a concentration in Mass Communication Education. Students are encouraged to take advantage of the MCOM Department's internship program.

Mission

The mission of the Department of Mass Communication is to acquire, synthesize, and disseminate knowledge related to print, broadcast, cable, online, and other forms of electronic communication for the purpose of producing media literate, socially aware, and professionally competent graduates.

Program emphasis is on the preparation of ethical and technologically proficient communication professionals who are capable of making a positive impact on their environment and on society. Our graduates will acquire the skills for today's media marketplace and also develop the broader, theoretical background for:

- Negotiating convergence in the media fields;
- Communicating with and serving various populations;
- Understanding the economic and political pressures on professional integrity; and
- Intelligently assessing and interpreting unfolding events in a media-saturated experience.

Highlights

The Department of Mass Communication offers a comprehensive blend of courses, including but not limited to global communication, film production and theory, media production and reporting, audience analysis, media sales, mass communication theory and history, and writing for print, broadcast, and digital media. The curriculum introduces students to each of the four emphasis areas during their first year in the mass communication program. During the remaining three years, students can register for classes in digital audio and video editing, film production and directing, feature writing, research techniques, communication law, media marketing, scriptwriting, global communication, and multiplatform journalism.

Students with a major or minor in the MCOM Department will have the opportunity, as part of their college experience, to work with departmental media: 90.5 KSHU-FM, 90.5.2 El Gato, Cable Channel 7, *The Houstonian* newspaper, student news, Priority One PR, and Bearkat Sports.

Suggested Free Electives

Students in Mass Communication may select a specialized area of free elective classes compatible with their professional goals. In choosing an appropriate set of free electives, students should discuss their career plans with an advisor. For example, free electives in Management and Marketing are desirable for Public Relations & Advertising. History, English, foreign languages, Art, Theatre, Sociology, and other social sciences and fine arts are helpful to all emphases. Students with a Multiplatform Journalism emphasis could benefit from free electives in Political Science or History.

Career Opportunities

There are a variety of career opportunities in the Mass Communication field. Some graduates pursue traditional positions in the mass media marketplace (reporting/editing/writing for newspapers, television stations, radio stations, or magazines). MCOM graduates may also pursue careers with public relations and advertising agencies, with corporate communication programs, and within government, hospital, and other institutional settings. Graduates can affiliate with nonprofit agencies or move into sales and other promotional positions. Increasingly, graduates have been teaching in high schools, pursuing advanced graduate studies, and working in emerging and social media.

Program Specific Requirements

All students in the Mass Communication department will complete a four-course core that provides a foundation for success in a variety of media fields. To help students understand the contemporary media environment, the core includes an analysis of media and society. Because specific skills are required in the media marketplace, the applied Writing for Mass Media and T.V. & Film Production courses are part of the departmental core. A course in mass media law and ethics examines legal issues pertinent to the print, electronic, and emerging digital press.

All Mass Communication and Agricultural Communication (Ag/Com) majors and minors must earn a grade of 'C' or better in each MCOM, MCFL, MCJR, MCPA, or MCPD course, and successfully pass the departmental required Grammar Module with a score of 80 or higher.

- Bachelor of Arts, Major in Mass Communication: Broadcast Production (p. 209)
- Bachelor of Arts, Major in Mass Communication: Film (p. 212)
- Bachelor of Arts, Major in Mass Communication: Multiplatform Journalism (p. 216)
- Bachelor of Arts, Double Major in Education and Mass Communication: Journalism (p. 592)
- Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising (p. 219)
- Bachelor of Fine Arts, Major in Film and TV Production (p. 223)
- Minor in Arts and Popular Culture (p. 147)
- Minor in Emerging Media and Innovation (p. 226)
- Minor in Film Studies (p. 227)
- Minor in Mass Communication (p. 227)
- Minor in Sports Media (p. 228)

Student Organizations and Activities

The Department of Mass Communication supports student chapters of the American Advertising Federation (AAF), the National Broadcasting Society (NBS), the Texas Intercollegiate Press Association (TIPA), Society of Professional Journalists (SPJ), Agricultural Communicators of Tomorrow (ACT), National Association of Hispanic Journalists (NAHJ), the Public Relations Student Society of America (PRSSA), and the National Association of Black Journalists (NABJ).

Internships

Junior and senior level students who meet requirements may enroll in semester-long professional internships. MCOM students have interned in many locations, including: national media outlets, such as CBS News, *Entertainment Tonight*, ESPN, *David Letterman*, *The Jerry Springer Show*, MTV, The Cannes Film Festival, South by Southwest, and Disney World; regional media outlets such as KTLA-TV in Los Angeles, KHOU-TV in Houston, *The Conroe Courier*, *The Victoria Advocate*, Pierpont Public Relations, and the Houston Symphony; and at specialized institutional sites, such as the Texas State Senate.

Scholarships

Scholarships are available for outstanding undergraduate students continuing in the program. Scholarship deadlines are December 15 (incoming students) and February 15 (current students) for the following academic year.

Radio-Television Alumni Angels Scholarship - Nicole Angel Alumni

Transfer Student Angel Scholarship

Freshman Alumni Angel Scholarship

Sophomore Alumni Angel Scholarship

Senior Alumni Angel Scholarship

Omar Jon Sanchez Memorial Production Scholarship

Ferol Robinson Endowed Scholarship

Carol A. Callahan Journalism Endowed Scholarship

Kelly Edgar and Ina May Ogletree McAdams Endowed Scholarship

Charles Moser Brenham

Col. John W. Thomason Jr. Scholarship

Mary McAshan Gibbs Scholarship

CBS/Dan Rather Endowed Scholarship

Ferol Robinson Endowed Scholarship for Tomorrow's Journalists

Frank Q. Dobbs Mass Communication Memorial Scholarship

Houstonian Staff Endowed Scholarship

Dr. Ferol Robinson Journalism Endowed Scholarship

Journalism Advisory Council Internship Expenditure

Alpha Epsilon Rho R/T/F Scholarship

Cheryl Parish Journalism Award

Don and Frances Reid Journalism Endowed Scholarship

Roy G. Clark Journalism Scholarship

Morris Frank-Dan Rather Endowed Scholarship

For more information, please contact the Department of Mass Communication or visit Mass Communication scholarships (https://www.shsu.edu/dept/financial-aid/aid/scholarships/) online.

Director/Chair: **Nam Young Kim**

Dallin Russell Adams, PHD (dra041@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Utah; MA, Brigham Young University; BA, Brigham Young University

William Lee Angrove, EDD (wla002@shsu.edu), *Assoc VP For Distance Learning, Adjunct Faculty*, *Department of Mass Communication*, EDD, University of New England; MPA, American Public University; BS, Western Michigan University

Krystal Bolden, MFA (krb112@shsu.edu), *Clinical Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, National University; BA, Bowling Green State University; BA, Bowling Green State University

Ryan M Broussard, PHD (rxb055@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Louisiana-Lafayette; BA, Univ of Louisiana-Lafayette

Judith Alane Clemens-Smucker, PHD (jac300@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Bowling Green State University; MA, Bowling Green State University; BA, Goshen College

Joshua Curtis Criswell, AM (jcc146@shsu.edu), *Assistant Professor in Practice of Mass Communications*, *Department of Mass Communication*, AM, Depaul University; BS, LSU & A&M College

Dixuan Cui, PHD (dxc164@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Purdue University; MS, Purdue University; BS, Purdue University; BS, Purdue University

Cheryl Joy Eschenfelder, MA (jrn_cje@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MA, Sam Houston State University; BA, Sam Houston State University

Michael Douglas Foster, BFA (mdf022@shsu.edu), *Video Producer, Adjunct Faculty*, *Department of Mass Communication*, BFA, Sam Houston State University

Marcus James Funk, PHD (mjf023@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Trinity University

Martin Daniel Gaston, MED (mdg078@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MED, Houston Christian University; BS, Texas Tech University

Julian Grant, BFA (jxg390@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, BFA, York University

Stephen Michael Green, MA (smg032@shsu.edu), *Lecturer-Pool of Mass Communication*, *Department of Mass Communication*, MA, Kent State University; BA, Sam Houston State University

Ronnie Bennett Greene, BFA (rbg014@shsu.edu), *Lecturer-Pool Faculty of Mass Communication*, *Department of Mass Communication*, BFA, Sam Houston State University

Deborah A. Hatton, MA (hatton@shsu.edu), *Instructor of Mass Communication; Acting Associate Chair, MCOM*, *Department of Mass Communication*, MA, Univ of Texas At Tyler; BS, East Texas A&M

Nicole Renee Hendricks, PHD (nrh031@shsu.edu), *Visiting Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Southern Mississippi; MA, Ball State University; BA, Quincy College

Nam Young Kim, PHD (nyk001@shsu.edu), *Professor and Chair of Mass Communication*, *Department of Mass Communication*, PHD, LSU & A&M College; MA, Penn State Un-Univ Park; MAC, Sookmyung Women's University; BA, Sookmyung Women's University

Mia Chandra Long Anderson, PHD (mcl055@shsu.edu), *Professor of Mass Communication; Interim Dean, CAM*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Tennessee-Knoxville; BA, Univ of Georgia

Wojciech Lorenc, MFA (wlorenc@shsu.edu), *Professor of Mass Communication*, *Department of Mass Communication*, MFA, Depaul University; BA, Columbia College-Chicago

Sachin Dheeraj Mudigonda, MFA (sxm259@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, Univ of Texas At Austin; MS, Arizona State University

Kelly Leean Muns, MFA (klm022@shsu.edu), *Clinical Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Abilene Christian University

Ronald B O'Neal, PHD (boneal@shsu.edu), *Assistant Professor of Practice in Mass Communication*, *Department of Mass Communication*, PHD, Our Lady of Lake University; MBA, University of Phoenix; BA, Howard University

Jake Alan Portie, MFA (jap098@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BFA, Sam Houston State University

Jonathan M Read, MFA (jmr138@shsu.edu), *Lecturer of of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Univ of Houston-Main

William Francis Reilly Jr., MFA (wfr005@shsu.edu), *Clinical Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, American Film Inst Conservator; BA, Columbia College-Chicago

Robert J Richardson, PHD (rjr065@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Texas At Austin; MJ, Univ of Maryland-College Park; BA, Baylor University

Kiana Rios-Mangual, MFA (kxr008@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Sam Houston State University

Elisa Salem Herrmann, EDD (exh041@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, EDD, Sam Houston State University; MFA, Southern Illinois U-Carbondale; BED, Federal University of Parana

Ki Won Seo, PHD (kws014@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; MAC, Korea University; BA, Korea University; BA, Korea University

Christopher Michael Toula, PHD (cmt077@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Georgia State University; MA, Penn State Un-Univ Park; BA, Buckinghamshire New University

Grant Joseph Wiedenfeld, PHD (grant.wiedenfeld@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; MFA, Univ of Wisconsin-Milwaukee; BA, Univ of Colorado; BFA, Univ of Colorado

Shengjie Yao, MA (sxy027@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MA, Syracuse University; MS, Syracuse University; BA, Fu Jen Catholic Univ

Bachelor of Arts, Major in Mass Communication: Broadcast Production

Broadcast Production

Students completing a degree in the broadcast production concentration are prepared for decision-making and technical responsibilities in radio, television, field production, and social media. Technical, artistic, and management skills combine to ensure that quality digital content is presented in a compelling, appropriate, cost-effective, and engaging manner. Using various forms of technology, students will learn to visually tell a story and capture content to effectively reach an audience. Students will be equipped to enter the workforce with experience and industry application through the production of content for radio (90.5 KSHU), TV (Cable Channel 7), ESPN+, social media, and the Web.

Requirements

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Grammar Module with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCFL, MCJR, MCOM, MCPA, or MCPD. Please see the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

All students declaring a major or minor in Mass Communication or Ag/Com are required to receive a grade of C or better in all MCFL, MCJR, MCOM, MCPA, and MCPD courses.

The University requires all undergraduate students to complete at least six hours of writing enhanced courses within their major, of which three hours must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communication: Broadcast Production		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4, 5]		4
Degree Specific Requirements		
Foreign Language: WOLC 1411, WOLC 1412, WOLC 2311, WOLC 2312 [6]		14
Philosophy (PHIL) Course [7]		3
Major: Foundation		
MCOM 1130	Media Literacy [5]	1
MCOM 1330	Media, Culture and Society (Writing Enhanced) [2]	3
MCOM 1332	Writing For Mass Media (Writing Enhanced)	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics (Writing Enhanced)	3
Major: Required (21 hours)		
MCOM 1371	Audio Production & Performance [4]	3
MCOM 4398 or MCOM 3026	Professional Internship Media Practicum	3
MCPD 3373	Multi-Cam Studio Production I	3
MCPD 3375	Scriptwriting	3
MCPD 3379	Multi-Cam Field Production I	3
MCPD 4373	Advanced Production	3
MCPD 4377	Multi-Cam Studio Production II	3
Major: Prescribed Electives		**18**

Select six of the following:

MCFL 3372	Single Camera and Non-Linear Editing I	
MCJR 3366	Photojournalism	
MCOM 3026	Media Practicum	
MCOM 4022	Special Topic (Limited to 3 SCH)	
MCOM 4099	Independent Study (Limited to 3 SCH)	
MCOM 4393	Global Media	
MCPD 3370	Media Programming	
MCPD 3374	Sports Media Production I	
MCPD 3376	Field & Studio Audio Recording	
MCPD 3378	Production Management	
MCPD 4374	Sports Media Production II	
MCPD 4376	Advanced Audio Production	
MCPD 4378	Multi-Cam Field Production II	
MCPD 4379	Directing Multicamera Field Productions	
Select Option A or a Minor [8,9]		**15**
Total Hours		**120**

1 MATH 1332 is recommended.
2 MCOM 1330 is a Writing Enhanced course and satisfies the Core Curriculum requirement for Component area IV (Language, Philosophy, and Culture) as well as for the Mass Communication major.
3 MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 MCOM 1371 satisfies three hours of the requirement for Component Area IX (Component Area Option) and is a Degree Specific requirement for Mass Communication.
5 MCOM 1130 satisfies one semester credit hour of requirement for Component Area IX (Component Area Option) as well as the major requirement.
6 Four courses in one World Language are required.
7 Students should select 3 hours of PHIL to fulfill the Degree Requirements.
8 Select from Option A or a Minor. Option A consists of 15 credits in one Subject Area, 12 of which are Upper Level courses or a Minor of their choice.
9 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Component Area III (p. 89)	4
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MCOM 1330[4]		3 MCOM 1332	3
MCOM 1371[5]		3 MCOM 2371	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area V (p. 90)	3
MCOM 1130[6]		1 MCOM 1307[9]	3
MCPD 3373		3 MCPD 3375	3

POLS 2305[7]		3 POLS 2306[7]	3
WOLC 1411[8]		4 WOLC 1412[8]	4
	15		**16**

Third Year

Fall	Hours	Spring	Hours
MCOM 3026		1 MCPD 3379	3
MCPD 4377		3 WOLC 2312[8]	3
Option A or a Minor: Lower Level[11]		3 Precribed Electives[12]	9
PHIL course[10]		3	
WOLC 2311		3	
	13		**15**

Fourth Year

Fall	Hours	Spring	Hours
MCOM 4371		3 MCOM 4398 or 3026	3
Option A or a Minor: Upper Level[11]		6 MCPD 4373	3
Prescribed Electives[12]		3 Option A or a Minor: Upper Level[11]	6
Prescibed Electives[12]		3 Prescribed Elective[12]	3
	15		**15**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MCOM 1330 is a Writing Enhanced course and satisfies the Core Curriculum requirement for Component area IV (Language, Philosophy, and Culture) as well as for the Mass Communication major.
5 MCOM 1371 satisfies three hours of the requirement for Component Area IX (Component Area Option) and is a Degree Specific requirement for Mass Communication.
6 MCOM 1130 satisfies one semester credit hour of requirement for Component Area IX (Component Area Option) as well as the major requirement.
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8 Four courses in one World Language and 3 hours of PHIL are required for BA Degree.
9 MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
10 Students should select 3 hours of PHIL to fulfill the Degree Requirements.
11 Select from Option A or a Minor. Option A consists of 15 credits in one Subject Area, 12 of which are Upper Level courses or a Minor of students' choice.
12 See Prescribed Electives course list below.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Code	Title	Hours
Prescribed Electives [12]		
Select six of the following:		
MCFL 3372	Single Camera and Non-Linear Editing I	3
MCJR 3366	Photojournalism	3
MCOM 3026	Media Practicum	1-4

MCOM 4022	Special Topic (Limited to 3 SCH)	1-3
MCOM 4099	Independent Study (Limited to 3 SCH)	3
MCOM 4393	Global Media	3
MCPD 3370	Media Programming	3
MCPD 3374	Sports Media Production I	3
MCPD 3376	Field & Studio Audio Recording	3
MCPD 3378	Production Management	3
MCPD 4374	Sports Media Production II	3
MCPD 4376	Advanced Audio Production	3
MCPD 4378	Multi-Cam Field Production II	3
MCPD 4379	Directing Multicamera Field Productions	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Mass Communication: Broadcast Production is designed to provide graduates with the following marketable skills:

- Demonstrate strong oral, aural, and written communication skills.
- Utilize leadership, critical thinking, and teamwork skills.
- Conduct the collection, analysis, and management of digital data.
- Conceptualize and produce original and creative media.
- Produce media products for social and digital platforms.

Bachelor of Arts, Major in Mass Communications: Film

Film

The Film concentration provides students interested in digital cinema with the basics of film production and the visual lexicon. This includes fundamental film production and post-production skills as well as an examination of contemporary and historical films in terms of style and context. Students develop skills to critically examine film texts and to appreciate production workflow, preparing them for an exciting career in the film industry.

Requirements

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Grammar Module with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCFL, MCJR, MCOM, MCPA, or MCPD. Please visit the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

All students declaring a major or minor in Mass Communication or Ag/Com are required to receive a grade of "C" or better in MCFL, MCJR, MCOM, MCPA, or MCPD courses.

All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communications: Film		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		

Foreign Language: WOLC 1411, WOLC 1412, WOLC 2311, WOLC 2312 [6]		14
Philosophy (PHIL) course [7]		3
Major: Foundation		
MCOM 1130	Media Literacy [5]	1
MCOM 1330	Media, Culture and Society (Writing Enhanced) [2]	3
MCOM 1332	Writing For Mass Media (Writing Enhanced)	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics (Writing Enhanced)	3
Major: Required		
MCOM 1371	Audio Production & Performance [5]	3
MCOM 2366	Film Appreciation [3]	3
MCFL 3351	Moving Image Aesthetics	3
MCFL 3352	Cinematography	3
MCFL 3353	Advanced Editing for Film & TV	3
MCFL 3358	Screenwriting I: Narrative Writing for Film & Television	3
MCFL 3359	Directing for Film and TV	3
MCFL 3372	Single Camera and Non-Linear Editing I	3
MCPD 3375	Scriptwriting	3
MCPD 4373	Advanced Production	3
MCPD 4378	Multi-Cam Field Production II	3
Major: Prescribed Electives		**12**
Select four of the following:		
MCEM 4351	New Media Platforms	
MCFL 3354	Film History I	
MCFL 3355	Film History II	
MCFL 3356	Select Film Genre	
MCFL 3357	Seminar in Hispanic Cinemas / Arte de cines hispanohablantes	
MCFL 4350	Film Theory	
MCFL 4375	Screenwriting II	
MCOM 3026	Media Practicum	
MCOM 4022	Special Topic (Limited to 3 SCH)	
MCOM 4099	Independent Study (Limited to 3 SCH)	
MCOM 4398	Professional Internship	
MCPD 3373	Multi-Cam Studio Production I	
MCPD 3376	Field & Studio Audio Recording	
MCPD 3378	Production Management	
MCPD 3379	Multi-Cam Field Production I	
MCPD 4376	Advanced Audio Production	
MCPD 4377	Multi-Cam Studio Production II	
MCPD 4379	Directing Multicamera Field Productions	
Select Option A or B [8]		**15**
Minor: Not Required [9,10]		
Total Hours		**120**

1. MATH 1332 is recommended.
2. MCOM 1330 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
3. MCOM 2366 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
4. MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5. MCOM 1130 and MCOM 1371 satisfy the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the major.
6. Four courses in one foreign language are required.
7. Students should select 3 hours of PHIL to fulfill the Degree Requirements.
8. Select from Option A or Option B. Option A consists of 15 credits in one Subject Area, 12 of which are Upper-Level courses. Option B consists of 15 credits in Business, 12 of which are Upper-Level Courses. The remaining courses for both Options are referred to as Lower Level.

[9] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

[10] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
HSTY 1301[2]	3	HSTY 1302[2]	3
MCOM 1330 (Writing Enhanced)[3]	3	MCOM 1332 (Writing Enhanced)	3
MCOM 1371[4]	3	MCOM 2371	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	MCFL 3351	3
MCOM 1130[4]	1	MCFL 3352	3
MCOM 2366[5]	3	MCOM 1307[8]	3
POLS 2305[6]	3	WOLC 1412[7]	4
WOLC 1411[7]	4		
	15		**13**

Third Year

Fall	Hours	Spring	Hours
MCFL 3353	3	MCFL 3359	3
MCFL 3372	3	MCOM 3026	1
MCPD 3375	3	POLS 2306[6]	3
WOLC 2311[7]	3	WOLC 2312[7]	3
Option A or B: Lower Level[9]	3	Prescribed Electives[10]	6
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
MCFL 3358	3	MCPD 4373	3
MCOM 4371 (Writing Enhanced)	3	Option A or B: Upper Level[9]	6
PHIL course[11]	3	Option A or B: Upper Level[9]	3
Option A or B: Upper Level[9]	3	Prescribed Electives[10]	3
Prescribed Electives[9]	3		
	15		**15**

Total Hours: 120

[1] MATH 1332 is recommended.

[2] Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
[3] MCOM 1330 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
[4] MCOM 1130 and MCOM 1371 satisfy the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the major.
[5] MCOM 2366 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
[6] Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
[7] Four courses in one foreign language are required.
[8] MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
[9] Select from Option A or Option B. Option A consists of 15 credits in one Subject Area, 12 of which are Upper-Level courses. Option B consists of 15 credits in Business, 12 of which are Upper Level Courses. The remaining courses for both Options are referred to as Lower Level.
[10] See the Prescribed Electives course list below.
[11] Students should select 3 hours of PHIL to fulfill the Degree Requirements.

Code	Title	Hours
Prescribed Electives [10]		
Select four of the following:		
MCEM 4351	New Media Platforms	3
MCFL 3354	Film History I	3
MCFL 3355	Film History II	3
MCFL 3356	Select Film Genre	3
MCFL 3357	Seminar in Hispanic Cinemas / Arte de cines hispanohablantes	3
MCFL 4350	Film Theory	3
MCFL 4375	Screenwriting II	3
MCOM 3026	Media Practicum	3
MCOM 4022	Special Topic (Limited to 3 SCH)	3
MCOM 4099	Independent Study (Limited to 3 SCH)	3
MCOM 4398	Professional Internship	3
MCPD 3373	Multi-Cam Studio Production I	3
MCPD 3376	Field & Studio Audio Recording	3
MCPD 3378	Production Management	3
MCPD 3379	Multi-Cam Field Production I	3
MCPD 4376	Advanced Audio Production	3
MCPD 4377	Multi-Cam Studio Production II	3
MCPD 4379	Directing Multicamera Field Productions	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Mass Communications: Film is designed to provide graduates with the following marketable skills:

- Demonstrate strong oral, aural, and written communication skills.
- Utilize leadership, critical thinking, and teamwork skills.
- Conduct the collection, analysis, and management of digital data.
- Conceptualize and produce original and creative media.
- Produce media product for social and digital platforms.

Bachelor of Arts, Major in Mass Communication: Multiplatform Journalism

Multiplatform Journalism

The Multiplatform Journalism concentration empowers students to craft news content on a variety of media platforms with efficiency and expedience. Students develop traditional reporting and interviewing skills, writing and editing news copy proficiencies, and expertise with photography, audio recording, and video recording. Publication across platforms, including student-created websites and diverse social media, is also emphasized.

Requirements

All students who choose to declare a major or minor in Mass Communication or Agricultural Communication (Ag/Com) will be required to pass the Grammar Module with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCFL, MCJR, MCOM, MCPA, or MCPD. The lab is offered free of charge. Please visit Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

Students choosing to major or minor in MCOM or Agricultural Communication (Ag/Com) must receive a grade of C or better in MCFL, MCJR, MCOM, MCPA, and MCPD coursework.

All undergraduate students at SHSU are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communication: Multi-Platform Journalism		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4, 5]		4
Degree Specific Requirements		
Foreign Language: WOLC 1411, WOLC 1412, WOLC 2311, WOLC 2312 [2]		14
PHIL 2306	Contemporary Moral Issues [4]	3
Major: Foundation		
MCOM 1130	Media Literacy [5]	1
MCOM 1330	Media, Culture and Society (Writing Enhanced)	3
MCOM 1332	Writing For Mass Media (Writing Enhanced)	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics (Writing Enhanced)	3
Major: Required		**18**
MCJR 2362	News Reporting	
MCJR 3361	Broadcast Journalism	
MCJR 3364	Copyediting for News	
MCJR 3367	Public Affairs Reporting	
MCJR 4365	Mobile & Social Reporting	

MCOM 1371	Audio Production & Performance	
Major: Prescribed Electives (Concentration)		**15**
MCFL 3372	Single Camera and Non-Linear Editing I	
MCJR 3360	Specialized Writing	
MCJR 3363	Spanish-Language Broadcasting	
MCJR 3365	Broadcast Performance	
MCJR 3366	Photojournalism	
MCJR 3369	Designing and Producing Scholastic Media	
MCJR 4361	TV News Producing	
MCJR 4364	Investigative Reporting	
MCJR 4367	Reporting Sports Journalism	
MCJR 4369	Leadership in the Scholastic Media Newsroom	
MCOM 3026	Media Practicum	
MCOM 4022	Special Topic (Limited to 3 SCH)	
MCOM 4398	Professional Internship	
MCPD 3373	Multi-Cam Studio Production I	
MCPD 3376	Field & Studio Audio Recording	
MCPD 3379	Multi-Cam Field Production I	
MCPD 4376	Advanced Audio Production	
Major: Prescribed Electives (Analytical)		**3**
MCJR 3362	Media Criticism	
MCOM 4099	Independent Study (Limited to 3 SCH)	
MCOM 4393	Global Media	
MCPA 4383	Audience Research & Analysis	
Select Option A or B [6]		**18**
Minor: Not Required [7,8]		
Total Hours		**120**

1 MATH 1332 is recommended.

2 Four courses required in one language. Foreign Language Course WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as a portion of the Mass Communication Foreign Language requirement.

3 MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

4 PHIL 2306 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) as well as a degree specific requirement for mass communication.

5 MCOM 1130 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the major.

6 Select from Option A or Option B. Option A consists of 18 credits in one Subject Area, 12 of which are Upper Level courses. Option B consists of 18 credits in Business, 12 of which are Upper Level Courses. The remaining courses for both Options are referred to as Lower Level.

7 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

8 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
HSTY 1301[2]	3	HSTY 1302[2]	3
MCOM 1330 (Writing Enhanced)	3	MCOM 1332 (Writing Enhanced)	3
MCOM 1371	3	MCOM 2371	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area V (p. 90)	3
MCJR 2362	3	Component Area VIII (p. 90)[6]	3
MCOM 1130[3]	1	MCJR 3361	3
POLS 2305[4]	3	POLS 2306[4]	3
WOLC 1411[5]	4	WOLC 1412[5]	4
	15		**16**

Third Year

Fall	Hours	Spring	Hours
MCJR 3364	3	MCJR 3367	3
WOLC 2311[5]	3	PHIL 2306[9]	3
Option A or B: Lower Level[7]	3	WOLC 2312[5]	3
Prescribed Electives (Concentration)[8]	6	Option A or B: Lower Level[7]	3
		Option A or B: Upper Level[7]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
MCJR 4365	3	MCOM 4371	3
MCOM 3026	1	Option A or B: Upper Level[7]	3
Option A or B: Upper Level[7]	3	Prescribed Electives (Concentration)[8]	6
Option A or B: Upper Level[7]	3	Prescribed Electives (Analytical)[10]	3
Prescribed Electives (Concentration)[8]	3		
	13		**15**

Total Hours: 120

1. MATH 1332 is recommended.
2. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
3. MCOM 1130 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the major.
4. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
5. Four courses required in one language. Foreign Language course WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for the Component Area IV (Language, Philosophy, and Culture) as well as a portion of the Mass Communication Foreign Language requirement.
6. MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7. Select from Option A or Option B. Option A consists of 18 credits in one Subject Area, 12 of which are Upper Level courses. Option B consists of 18 credits in Business, 12 of which are Upper Level Courses. The remaining courses for both Options are referred to as Lower Level.
8. See Prescribed Electives (Concentration) course list below.
9. PHIL 2306 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) as well as a Degree Specific requirement for Mass Communication.
10. See Prescribed Electives (Analytical) course list below.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Code	Title	Hours
Prescribed Electives (Concentration) [8]		**15**
MCFL 3372	Single Camera and Non-Linear Editing I	3
MCJR 3360	Specialized Writing	3
MCJR 3363	Spanish-Language Broadcasting	3
MCJR 3365	Broadcast Performance	3
MCJR 3366	Photojournalism	3
MCJR 3369	Designing and Producing Scholastic Media	3
MCJR 4361	TV News Producing	3
MCJR 4364	Investigative Reporting	3
MCJR 4367	Reporting Sports Journalism	3
MCJR 4369	Leadership in the Scholastic Media Newsroom	3
MCOM 3026	Media Practicum	1-4
MCOM 4022	Special Topic (Limited to 3 SCH)	3
MCOM 4398	Professional Internship	3
MCPD 3373	Multi-Cam Studio Production I	3
MCPD 3376	Field & Studio Audio Recording	3
MCPD 3379	Multi-Cam Field Production I	3
MCPD 4376	Advanced Audio Production	3

Code	Title	Hours
Prescribed Electives (Analytical) [10]		
Select one of the following:		
MCJR 3362	Media Criticism	3
MCOM 4099	Independent Study (Limited to 3 SCH)	3
MCOM 4393	Global Media	3
MCPA 4383	Audience Research & Analysis	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Mass Communication: Multiplatform Journalism is designed to provide graduates with the following marketable skills:

- Demonstrate strong oral, aural, and written communication skills.
- Utilize leadership, critical thinking, and teamwork skills.
- Conduct the collection, analysis, and management of digital data.
- Conceptualize and produce original and creative media.
- Produce media for social and digital platforms.

Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising

Public Relations & Advertising

Today's marketplace increasingly requires communication practitioners to understand both traditional and new media and to be able to integrate communication tools across once-separate disciplines. Students who choose the Public Relations & Advertising concentration will participate in a program that will provide a strong grounding in analytical and creative thought and comprehensive understanding of current industry trends. Students are required to complete the MCOM six-course core and then focus on a sequence of public relations and advertising courses that combines

theoretical perspectives with hands-on experience. Students can also choose to enhance their portfolios and field experiences by taking elective courses such as the Professional Internship and Priority One, an on-campus agency.

Graduates of this concentration will have command of tools and techniques required for jobs in strategic communication in both corporate and non-profit environments. Additionally, graduates will have expertise in using those tools and techniques to think critically and creatively to solve communication problems in management-level positions.

Requirements

All students who choose to declare a major or minor in Mass Communication or Ag/Com are required to pass the Grammar Module with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCFL, MCJR, MCOM, MCPA, or MCPD. Please visit the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

All students declaring a major or minor in Mass Communication or Ag/Com are required to receive a grade of C or better in all MCFL, MCJR, MCOM, MCPA, and MCPD courses.

The University requires all undergraduate students to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Sciences)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (US History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4,5]		4
Degree Specific Requirements		
PHIL 2306	Contemporary Moral Issues [4]	3
Foreign Language: WOLC 1411, WOLC 1412, WOLC 2311, WOLC 2312 [2]		14
Major: Foundation		
MCOM 1130	Media Literacy [5]	1
MCOM 1330	Media, Culture and Society (Writing Enhanced)	3
MCOM 1332	Writing For Mass Media (Writing Enhanced)	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics (Writing Enhanced)	3
Major: Required		
MCPA 2382	Design for Public Relations and Advertising	3
MCPA 3381	Principles Of Public Relations	3
MCPA 3382	Principles of Advertising	3
MCPA 3383	Writing for Public Relations and Advertising	3
MCPA 3388	Sales and Marketing	3
MCPA 4382	Advanced Writing for Public Relations and Advertising	3
MCPA 4383	Audience Research & Analysis	3
MCPA 4384	Advanced Design for Public Relations & Advertising	3
MCPA 4390	Campaigns for Public Relations and Advertising	3
Major: Prescribed Electives		**9**
MCOM 3026	Media Practicum	
MCOM 4022	Special Topic (Limited to 3 SCH)	

MCOM 4099	Independent Study (Limited to 3 SCH)	
MCPA 4381	Social Marketing for Public Relations and Advertising	
MCPA 4385	Social Media for Public Relations and Advertising	
MCOM 4393	Global Media	
MCOM 4398	Professional Internship	
Select Option A or a Minor [6]		**18**
Minor: Not Required [7,8]		
Total Hours		**120**

1 MATH 1332 is recommended.
2 Four courses in one language are required. Foreign Language Course WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as a part of the Mass Communication Foreign Language requirement.
3 MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 PHIL 2306 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) as well as a Degree Specific requirement for Mass Communication.
5 MCOM 1130 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
6 Select from Option A or a minor. Option A consists of 18 credits in one Subject Area, or a minor.
7 A minor is not required for this degree program; however, a student has the option to add a minor.
8 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-mass-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
HSTY 1301[2]	3	HSTY 1302[2]	3
MCOM 1330 (Writing Enhanced)	3	MCOM 1332	3
PHIL 2306[3]	3	MCOM 2371	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area V (p. 90)	3
MCOM 1130[4]	1	MCOM 1307[7]	3
MCPA 2382	3	MCPA 3381	3
POLS 2305[5]	3	POLS 2306[5]	3
WOLC 1411[6]	4	WOLC 1412[6]	4
	15		**16**

Third Year

Fall	Hours	Spring	Hours
MCPA 3382	3	MCPA 3388	3
MCPA 3383	3	MCPA 4382	3

WOLC 2311[6]		3 WOLC 2312[6]	3
Option A or a Minor: Lower Level[8]		6 Prescribed Electives[9]	6
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
MCOM 3026	1	MCPA 4384	3
MCOM 4371	3	MCPA 4390	3
MCPA 4383	3	Option A or a Minor: Upper Level[8]	6
Option A or a Minor: Upper Level[8]	6	Prescribed Electives[9]	3
	13		**15**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
3 PHIL 2306 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific requirement for Mass Communication.
4 MCOM 1130 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
5 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
6 Four courses in one language are required. Foreign Language Course WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and a part of the Mass Communication Foreign Language requirement.
7 MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 Select from Option A or a Minor: Option A consists of 18 credits in one Subject Area, 12 of which are Upper-Level courses.
9 See Prescribed Electives Course list below.

Code	Title	Hours
Prescribed Electives [9]		
Select three of the following:		
MCOM 3026	Media Practicum	1-4
MCOM 4022	Special Topic (Limited to 3 SCH)	3
MCOM 4099	Independent Study (Limited to 3 SCH)	3
MCOM 4393	Global Media	3
MCOM 4398	Professional Internship	3
MCPA 4381	Social Marketing for Public Relations and Advertising	3
MCPA 4385	Social Media for Public Relations and Advertising	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Mass Communication: Public Relations & Advertising is designed to provide graduates with the following marketable skills:

- Demonstrate strong oral and written communication skills.
- Utilize leadership, critical thinking, and teamwork skills.
- Conduct the collection, analysis, and management of digital data.
- Conceptualize and produce original and creative media.
- Produce media campaigns for social and digital platforms.

Bachelor of Fine Arts, Major in Film & TV Production

The Bachelor of Fine Arts in film and TV production at Sam Houston State University is perfect for anyone interested in studying digital cinema.

Whether you want to write, direct, produce, design, edit, or shoot, you can get your first shot with a Sam Houston film & TV degree plan. The BFA in film and TV production provides students with an excellent liberal arts education from a renowned department with a high degree of student-faculty interaction, a wide variety of hands-on courses, state-of-the-art facilities located in the Dan Rather Communications Building, and worldwide networking opportunities. Students will be prepared for a career in motion picture and media production in a diverse, multicultural, and rapidly changing media world.

Requirements:

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCFL, MCJR, MCOM, MCPA, or MCPD. Please visit the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html)for additional information.

A digital media portfolio or a link to an online digital media portfolio must be submitted to the department during the student's first semester at SHSU. A review of the portfolio will determine if the student is allowed to remain in the BFA program. Students not passing the portfolio review will be required to select another concentration within the department. Students may be required to submit subsequent digital portfolios for review throughout the program.

Students are required to earn a C or better in all degree specific courses in MCFL, MCJR, MCOM, MCPA, or MCPD.

All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-film-and-tv-production/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Film and TV Production		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Major: Foundation		
MCEM 4351	New Media Platforms	3
MCFL 3351	Moving Image Aesthetics	3
MCFL 3352	Cinematography	3
MCFL 3353	Advanced Editing for Film & TV	3
MCFL 3359	Directing for Film and TV	3
MCFL 3372	Single Camera and Non-Linear Editing I	3
MCFL 4375	Screenwriting II	3
MCOM 1130	Media Literacy [5]	1
MCOM 1330	Media, Culture and Society (Writing Enhanced) [2]	3
MCOM 1332	Writing For Mass Media (Writing Enhanced)	3

MCOM 1371	Audio Production & Performance [5]	3
MCOM 2366	Film Appreciation [3]	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	3
or MCOM 4398	Professional Internship	
MCOM 4099	Independent Study	3
MCOM 4371	Mass Media Law And Ethics (Writing Enhanced)	3
MCPD 3373	Multi-Cam Studio Production I	3
MCPD 3375	Scriptwriting	3
MCPD 3378	Production Management	3
MCPD 3379	Multi-Cam Field Production I	3
MCPD 4373	Advanced Production	3
MCPD 4377	Multi-Cam Studio Production II	3
MCPD 4378	Multi-Cam Field Production II	3
THEA 1364	Beginning Acting	3
Electives: General		
General Electives		12
Major: Prescribed Electives		**6**
Choose two of the following:		
MCFL 3354	Film History I	
MCFL 3355	Film History II	
MCFL 3356	Select Film Genre	
MCFL 4350	Film Theory	
Minor: Not Required [6]		
Total Hours		**120**

1 MATH 1332 is the recommended math course for students in this program.
2 MCOM 1330 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
3 MCOM 2366 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
4 MCOM 1307 satisfies the Core Curriculum requirements for Component Area VIII (Social and Behavioral Sciences).
5 MCOM 1371 and MCOM 1130 satisfy the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the major.
6 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-film-and-tv-production/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area III (p. 89)	4	Component Area II (p. 89)[3]	3
Component Area VIII (p. 90)[1]	3	Component Area III (p. 89)	4
MCOM 1330 (Writing Enhanced)[2]	3	MCOM 1371[4]	3
MCOM 1332 (Writing Enhanced)	3	MCOM 2371	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
HSTY 1301[5]		3 HSTY 1302[5]	3
MCFL 3352		3 MCFL 3351	3
MCOM 2366[6]		3 MCFL 3372	3
MCPD 3373		3 MCPD 3375	3
THEA 1364		3 POLS 2305[7]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
MCFL 3354, 3355, 3356, or 4350		3 MCFL 3355, 3354, 3356, or 4350	3
MCFL 3353		3 MCFL 4375	3
MCOM 1130[4]		1 MCPD 3378	3
MCPD 4377		3 MCPD 3379	3
POLS 2306[7]		3 General Electives	3
		13	**15**

Fourth Year

Fall	Hours	Spring	Hours
MCEM 4351		3 MCOM 4099	3
MCFL 3359		3 MCOM 4398 or 3026	3
MCOM 4371 (Writing Enhanced)		3 MCPD 4373	3
MCPD 4378		3 General Electives	3
General Electives		3 General Electives	3
		15	**15**

Total Hours: 120

1 MCOM 1307 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
2 MCOM 1330 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
3 MATH 1332 is the recommended math course for students in this program.
4 MCOM 1371 and MCOM 1130 satisfy the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the major.
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 MCOM 2366 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Film & TV Production is designed to provide graduates with the following marketable skills:

- Demonstrate strong oral, aural, and written communication skills.
- Utilize leadership, critical thinking, and teamwork skills.
- Conduct the collection, analysis, and management of digital data.

- Conceptualize and produce original and creative media.
- Produce media campaigns for social and digital platforms.

Minor in Emerging Media and Innovation

The multi-disciplinary Minor in Emerging Media and Innovation is designed for students who aspire to be at the forefront of innovation in the media industry. Through a combination of theoretical knowledge and practical application, students will be equipped to spot future trends, create cutting-edge media with artificial intelligence, and navigate the future with a solid foundational understanding of the unique ethical dilemmas that new media poses to society.

Code	Title	Hours
Minor in Emerging Media and Innovation		
Required Courses		
MCEM 1125	Intro to Emerging Media Tech – AI and XR	1
MCEM 2321	Spotting Future Trends in New Media	3
MCEM 3321	Immersive Media Prod Tools & Content Creation	3
or MCEM 3322	Generative AI Prod Tools & Content Creation	
MCEM 4321	Adv Storytelling with Motion Graphics & Effects	3
MCEM 4322	Ethics in Emerging Media	3
MCEM 4351	New Media Platforms	3
Prescribed Electives		
Select six hours from the following:		6
BUAD 3301	Business Legal Environment	
BUAD 3337	Artificial Intelligence for Business Communication	
BUAD 3345	Entrepreneurship I - Startup	
ETEC 3300	Technology Innovations [1]	
ETDD 3366	Intro to Virtual and Augmented Reality [1]	
MCOM 4022	Special Topic	
MCOM 4099	Independent Study	
Total Hours		**22**

[1] Courses have prerequisites not included in the minor's SCH.

Minor in Film Studies

The Minor in Film Studies enhances preparation for careers in arts, media, and education. Courses from various departments develop communication skills along with expert knowledge of film, television, and their cultural contexts.

Code	Title	Hours
Minor in Film Studies		
Required Courses		
MCOM 2366	Film Appreciation [1]	3
MCFL 3354	Film History I [2]	3
MCFL 3355	Film History II [2]	3
Prescribed Electives		
Choose three from the following:		9
ARTS 3382	The History Of Animation [3]	
ENGL 3334	Literature and Film [3]	
FREN 4370	Seminar in Selected Topics of Literacy, Language, and Civilization [3]	
GERM 4370	Seminar in Selected German Topics [3]	
HONR 3343	Film and Society [3]	
MCFL 3356	Select Film Genre	
MCFL 3357	Seminar in Hispanic Cinemas / Arte de cines hispanohablantes	
MCFL 4350	Film Theory	
MCOM 4393	Global Media	
MUSI 4375	Film Scoring [3]	
PHIL 4373	Philosophy in Film and Literature [3]	
POLS 4081	Problems in Political Science [3]	
Total Hours		**18**

1 MCOM 2366 satisfies the Core Curriculum requirement for Component Area V (Component Area Option).
2 This course's prerequisite of MCOM 2366 is included in the Film Studies minor core curriculum.
3 Course has prerequisite that may require additional semester credit hours or instructor approval.

Requirements

The minor program requires 18 semester credit hours.

All students declaring a major or minor in Mass Communication or Ag/Com are required to receive a grade of C or better in all MCOM, MCFL, MCJR, MCPA, or MCPD courses.

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCOM, MCFL, MCJR, MCPA, or MCPD. Please visit the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html)for additional information.

Minor in Mass Communication

Society is becoming more reliant on digital media each day. Students interested in developing media skills are encouraged to select a Minor in Mass Communication. Coursework for the minor is designed to provide students with the ability to create digital media, along with strong communication, problem-solving, and leadership skills.

Requirements:

The Mass Communication minor requires students to complete 21 semester credit hours of coursework: the MCOM core courses plus two advanced MCOM, MCFL, MCJR, MCPA, or MCPD electives appropriate to the student's interests and career path.

All students declaring a major or minor in Mass Communication or Ag/Com are required to receive a grade of C or better in all MCOM, MCFL, MCJR, MCPA, or MCPD courses.

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCFL, MCJR, MCOM, MCPA, or MCPD.

Please visit the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html)for additional information.

Code	Title	Hours
Minor in Mass Communication		
Required Courses		
MCOM 1330	Media, Culture and Society Course will fulfill a component area in the core	3
MCOM 1332	Writing For Mass Media	3
MCOM 1371	Audio Production & Performance Course will fulfill a component area in the core	3
MCOM 2371	TV & Film Production	3
MCOM 4371	Mass Media Law And Ethics	3
Electives		
Advanced MCOM, MCFL, MCJR, MCPA, or MCPD Courses		6
Total Hours		**21**

Minor in Sports Media

The minor in Sports Media's 21 semester credit hour curriculum enhances instruction for students seeking careers in sports media. Students seeking jobs in sports broadcasting, sports journalism, and other sports areas will benefit from focusing their study in this subject area.

Requirement:

All students declaring a major or minor in Mass Communication or Agricultural Communication (Ag/Com) are required to receive a grade of C or better in all MCOM, MCFL, MCJR, MCPA, and MCPD courses.

All students who choose to declare a major or minor in Mass Communication or Agricultural Communication (Ag/Com) will be required to pass the Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCOM, MCFL, MCJR, MCPA, or MCPD. Please visit the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html)for additional information.

Code	Title	Hours
Minor in Sports Media		
Required courses		
MCJR 2362	News Reporting	3
MCJR 3366	Photojournalism	3
MCOM 1332	Writing For Mass Media	3
MCOM 3026	Media Practicum [1]	3
MCPD 3374	Sports Media Production I	3
MCPD 4374	Sports Media Production II	3
Prescribed Electives		
Select one of the following:		3
KINE 3365	Sport Law	
KINE 3378	Administration of Kinesiology and Sport	
KINE 3388	Sports in Contemporary Society	
KINE 3389	Gender and Sport	
MCFL 3372	Single Camera and Non-Linear Editing I	
MCJR 4367	Reporting Sports Journalism	
MCPD 3376	Field & Studio Audio Recording	
MCPD 3379	Multi-Cam Field Production I	
MCPD 4376	Advanced Audio Production	
MCPD 4377	Multi-Cam Studio Production II	
MCPD 4379	Directing Multicamera Field Productions	
Total Hours		**21**

[1] MCOM 3026 Media Practicum (Sports or The Houstonian - Sports)

Notes

Mass Communication majors will not be allowed to count courses required for their concentration toward the minor in Sports Media. Prescribed electives for the minor should be taken instead to meet the 21 credit hour total. Mass Communication majors will be permitted to count concentration electives toward the minor.

Prerequisite courses resulting in additional semester credit hours may be required.

Department of Theatre and Musical Theatre

Chair: Nicholas Graves (nag023@shsu.edu), MFA

Contact Information:
(936) 294-1329
theatre@shsu.edu

General Information

The programs within the Department of Theatre and Musical Theatre are accredited by the National Association of Schools of Theatre (NAST). The department offers three degrees: a BFA in Theatre, a BFA in Theatre with Teaching Certification, and a BFA in Musical Theatre. The BFA in Theatre has three emphases: Acting/Directing, Design/Technology, and Theatre Studies.

Admission for all degree programs is by audition/interview only. Prospective students should visit the auditions webpage for each degree program to learn more about the audition process and to submit an application. Musical theatre majors declare an area of emphasis by their junior year which allows for twelve additional hours of study in either dance or theatre.

The department produces between eight and ten productions during the nine-month academic year and various productions over the summer. Students have the opportunity to apply classroom knowledge and techniques to production work during the course of the semester. Freshmen may be cast alongside upperclassmen, and advanced students in stage management, design, technology (costumes, lights, sets), directing, and house management may be chosen to fill the lead positions in their fields for any of the departmentally-produced shows.

Advanced students may take advantage of a number of internships with theatres in the Greater Houston area. The close proximity to the city also provides students with the opportunity to experience live professional theatre throughout their study. Workshops and discussions led by guest artists occur in the department each year.

Auditioning Policy

The department highly encourages all incoming BFA Theatre and Musical Theatre students to audition for all non-musicals, and all incoming BFA Musical Theatre students to audition for all shows. The auditions for the fall shows occur during the days leading up to the first day of class and the first few days following. The spring auditions occur in the latter part of the fall semester. Returning theatre majors with an acting/directing emphasis are highly encouraged to audition for all non-musicals each semester. All returning musical theatre majors are highly encouraged to audition for all shows each semester. Students schedule auditions through the Department of Theatre and Musical Theatre (http://www.shsu.edu/academics/theatre/) website.

Academic Success

The department is committed to encouraging and promoting the academic success of its students. Students are expected to excel in their academic coursework as well as in their production assignments throughout the year, and they are supported in this effort. Students must maintain a minimum GPA of 2.5 in their major area to be in good academic standing. Students falling below this target GPA will be placed on probation for a semester. Students placed on probation will be asked to meet with the department chair, their advisor, and the Academic Success Center in order to address academic issues and facilitate their success. Probation will be a factor taken into consideration as decisions are made regarding casting, design, stage management, and directing opportunities, as well as in determining eligibility for paid student assistantship positions in the department.

Writing Enhanced Courses

All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Academic Advisement

All students majoring or minoring in theatre should meet with an academic advisor in the Department of Theatre and Musical Theatre each semester. All tenure-track faculty members in the department advise our majors and minors.

Highlights

The Theatre and Musical Theatre programs at Sam Houston State University

- are active in the Kennedy Center American College Theater Festival (KCACTF);
- have been invited to participate at the Regional Kennedy Center American College Theater Festival consistently since 2000;
- were invited to perform *The Laramie Project* at the National KCACTF Festival in Washington, D.C., and were invited to perform the following productions at Region VI Festival over the last five years: *She Kills Monsters: Virtual Realms, Galatea, Airness, Gruesome Playground Injuries, Curious Incident of the Dog in the Night-Time,* and *Everybody;*
- have an internship program with STAGES in Houston;
- have an internship program with Classical Theatre Company in Houston;

- host guest artists in the areas of acting, directing, dance, voice, playwriting, stage management, and design. These artists have included Edward Albee, James Black, Peter Ton, Darius Wright, Christopher Bayes, Andrew Campbell, Rod Caspers, Dave Clemmons, Kevin Cooney, Judy Dolan, Robert Fowler, Sofia Gomez, Greg Graham, Jean Guy LeCat, Luc LaFortune, Nikiya Mathis, Robert Marks, James McLure, Keith Pitts, Mark Ramont, David Stewart, Georgia Stitt, and Michael York.

The programs and faculty also hold memberships and participate in the following organizations:

- National Association of Schools of Theatre (NAST)
- Kennedy Center American College Theater Festival (KCACTF)
- Musical Theatre Educators' Alliance (MTEA)
- National Alliance of Acting Teachers (NAAT)
- Southwest Theatre Association (SWTA)
- Texas Educational Theatre Association (TETA)
- Texas Nonprofit Theatres (TNT)
- United States Institute for Theatre Technology (USITT)

Career Opportunities

Students who complete their degrees in theatre or musical theatre may pursue careers in design, management, performance, secondary education, choreography, music direction, voice instruction, or technology. Students may also choose to pursue graduate degrees in order to further their academic and professional preparation.

Minors

No minor is required for a BFA in Theatre or Musical Theatre.

- Bachelor of Fine Arts, Major in Musical Theatre With Dance Emphasis (p. 233)
- Bachelor of Fine Arts, Major in Musical Theatre With Theatre Emphasis (p. 236)
- Bachelor of Fine Arts, Major in Theatre: Acting and Directing Emphasis (p. 239)
- Bachelor of Fine Arts, Major in Theatre: Design and Technology Emphasis (p. 242)
- Bachelor of Fine Arts, Major in Theatre: Theatre Studies Emphasis (p. 245)
- Bachelor of Fine Arts, Major in Theatre With Teaching Certification (p. 250)
- Minor in Arts and Popular Culture (p. 147)
- Minor in Theatre (p. 253)

Student Organizations

- Artists of Color
- United States Institute for Theatre Technology
- Musical Theatre Alliance
- LGBTQ+ Artists
- Alpha Psi Omega
- Acting and Directing Guild

Internships/Apprenticeships

The Sam Houston State University Department of Theatre and Musical Theatre has a professional internship program in acting and in some areas of technical theatre with STAGES, A.D. Players, Classical Theatre Company, and Main Street Theater in Houston.

Scholarships

Scholarships are available through the theatre program for theatre and musical theatre majors. Performance, management, design, and technical auditions are held each fall and spring for freshman and transfer students entering in the fall. Scholarships are awarded by year. Scholarships are renewable but are not automatically renewed. Returning students desiring scholarships for the following academic year must each complete an application and submit it to Scholarships4Kats (https://shsu.academicworks.com/) (online) prior to November 1 for priority consideration. Contact the department or visit the website for further information.

Student Assistantships are available for advanced theatre students who work in scenery, properties, costuming, lighting, and management.

Director/Chair: **Nicholas Alexander Graves**

Zachary Franklin Bryant, DMA (zfb001@shsu.edu), *Lecturer of Theatre*, *Department of Theatre & Musical Theatre*, DMA, Univ of Maryland-College Park; MM, Univ of Colorado; MA, Columbus State University

Fabrice Philippe Conte Williamson, PHD (fabricecw@shsu.edu), *Associate Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, PHD, Univ of Oklahoma-Norman; MFA, Univ of Oklahoma-Norman; BA, University of Nice

Kyle Ann Craig-Bogard, MFA (kac118@shsu.edu), *Associate Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Univ of Washington; BA, Baldwin-Wallace College

Kevin Grant Crouch, MFA (kevincrouch@shsu.edu), *Associate Professor of Theatre*, *Department of Theatre & Musical Theatre*, MFA, New York University; BFA, Sam Houston State University

George E Curry, MFA (gcurry@shsu.edu), *Assistant Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Boston University; BFA, Sam Houston State University

Dain A Geist, MFA (dag067@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, New School/Soc Rsrch; BFA, Adelphi University

Nicholas Alexander Graves, MFA (nag023@shsu.edu), *Associate Professor of Theatre and Chair, Theatre & Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Indiana University-Bloomington; BFA, Abilene Christian University

William David Kenner, MFA (stdwdk12@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, New York University; BFA, Sam Houston State University

Victoria Pettersen Lantz, PHD (vplantz@shsu.edu), *Associate Professor and Acting Associate Chair of Theatre*, *Department of Theatre & Musical Theatre*, PHD, Univ of Wisconsin-Madison; MA, Univ of Wisconsin-Madison; BA, Lewis & Clark College

Eric L Marsh, MFA (elm008@shsu.edu), *Professor of Theatre*, *Department of Theatre & Musical Theatre*, MFA, Western Illinois University; BA, California St Un-Chico

Patrick Neal Pearson, MFA (patrickpearson@shsu.edu), *Assistant Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, California St Un-Fullerton; BFA, Sam Houston State University

Thomas C Prior, MFA (drm_tcp@shsu.edu), *Professor of Theatre*, *Department of Theatre & Musical Theatre*, MFA, Univ of Houston-Main; BFA, Carnegie-Mellon Univ

Amanda Norman Waites, MFA (ann034@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Tulane University; BM, Loyola Univ-New Orleans

Bachelor of Fine Arts, Major in Musical Theatre with Dance Emphasis

A Bachelor of Fine Arts degree in musical theatre is available with an emphasis in theatre or dance. This is a 138 hour degree.

Entry into the musical theatre program is by audition only, and those auditions are scheduled toward the end of every semester. Contact the Department of Theatre and Musical Theatre for information.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-musical-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Musical Theatre with Dance Emphasis		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation (Musical Theatre)		
Theatre Course Requirements		
Select two of the following:		2
THEA 1115	Technical Build Crew	
THEA 1116	Costume Crew	
THEA 1117	Management Crew	
THEA 3127	Advanced Theatre Management Crew	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
Theatre Block Courses [2]		
The following courses are restricted until after the successful completion of the program-specific audition / portfolio and interview process.		
THEA 2330	Stage Make Up	3
THEA 2336	Voice I for the Actor	3
THEA 2368	Intermediate Acting	3
THEA 3117	Musical Theatre Workshop (8 semesters) [3]	8
THEA 3360	History Of The Theatre I	3
THEA 3369	Advanced Acting: Modern Theatre	3
THEA 3372	Improvisational Techniques	3
THEA 4331	Acting For The Camera	3
THEA 4332	Auditioning For Community Theatre	3
THEA 4366	Directing I	3
THEA 4371	The American Musical Theatre	3
THEA 4190	Senior Showcase	1
Dance Emphasis--Musical Theatre Major		
Select 9 hours of electives from the following		9
Advanced DANC electives		
DANC 1228	Tap Dance Technique I	
DANC 2228	Tap Dance Technique II	
THEA 3373	Stage Movement I for the Actor [2]	
THEA 3395	Acting In Major Roles [2]	
THEA 4093	Theatre Internship [2]	
Dance Course Requirements		

Dance Electives (8 semesters)		16
Music Course Requirements		
MTVO 1201	Musical Theatre Applied Voice (4 semesters) [4]	8
MTVO 3100	Platform Performances (2 semesters) [5]	2
MTVO 3201	Musical Theatre Applied Voice (4 semesters) [4]	8
MUSI 1115	Keyboard Harmony I	1
MUSI 1116	Keyboard Harmony II	1
MUSI 1226	Practical Theory I	2
MUSI 1227	Practical Theory II	2
Total Hours		**138**

1 MATH 1332 is recommended.
2 The courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.
3 Or up to 4 hours of THEA 3114, THEA 3396, THEA 4093, MUEN XXXX, MUSI XXXX, with departmental approval.
4 Or up to 4 hours of THEA 3396 THEA 4093, MUEN XXXX, VOIC XXXX, MUSI XXXX, with department approval.
5 Or THEA 3114 or MUEN XXXX, with departmental approval.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.75 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Sophomore Gate. In conjunction with classes in acting, dance, and voice, musical theatre majors will participate in an assessment interview at the conclusion of the sophomore year (or end of first year for transfer students) with musical theatre faculty to determine the student's progress and potential for completion of the BFA in Musical Theatre degree.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-musical-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Dance Elective[2]	2
Component Area V (p. 90)		3 ENGL 1302[3]	3
Component Area IX (p. 91)		1 MTVO 1201[4]	2
Dance Elective[2]		2 THEA 1115, 1116, 1117, or 3127	1
ENGL 1301[3]		3 THEA 2330[6]	3
MTVO 1201[4]		2 THEA 2367	3
THEA 1364		3 THEA 2368 or 3372[6]	3
THEA 3117[5]		1 THEA 3117[5,6]	1
	18		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component III	4
Dance Elective[2]		2 Dance Elective[2]	2
MTVO 1201[4]		2 MTVO 1201[4]	2
MUSI 1115		1 MUSI 1116	1
MUSI 1226		2 MUSI 1227	2
THEA 2336[6]		3 POLS 2305[7]	3
THEA 2368 or 3372		3 THEA 3117[5,6]	1
THEA 3117[5,6]		1 THEA 4366 or 4332[6]	3
	18		**18**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)		3 Component Area IV (p. 89)	3
Dance Elective[2]		2 Dance Elective[2]	2
HSTY 1301[8]		3 HSTY 1302[8]	3
MTVO 3100[9]		1 MTVO 3201[4]	2
MTVO 3201[4]		2 POLS 2306[7]	3
THEA 3369		3 THEA 1115, 1116, 1117, or 3127	1
THEA 3117		1 THEA 3117[5,6]	1
THEA 4366 or 4332[6]		3 THEA 4371[6]	3
		18	**18**

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)		3 Dance Elective[2]	2
Dance Elective[2]		2 Dance Emphasis Electives [10]	6
Dance Emphasis Electives [10]		3 MTVO 3201[4]	2
MTVO 3100[9]		1 THEA 3117[5,6]	1
MTVO 3201[4]		2 THEA 4190[6]	1
THEA 3117[5,6]		1 THEA 4331[6]	3
THEA 3360[6]		3	
		15	**15**

Total Hours: 138

1 MATH 1332 is recommended.
2 Taken for 8 semesters.
3 Satisfies the Core Curriculum requirement for Component Area I (Communication).
4 Or up to 4 hours of THEA 3396, THEA 4093, MUEN XXXX, VOIC XXXX, MUSI XXXX, with department approval. Taken for 4 semesters.
5 Or up to 4 hours of THEA 3114, THEA 3396, THEA 4093, MUEN XXXX, MUSI XXXX with departmental approval. Taken for 8 semesters.
6 The courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.
7 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
8 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
9 Taken for 2 semesters.
10 See Emphasis Elective Course list below.

Code	Title	Hours
Dance Emphasis Elective Courses [10]		
Advance DANC Elective		
DANC 1228	Tap Dance Technique I	2
DANC 2228	Tap Dance Technique II	2
THEA 3373	Stage Movement I for the Actor	3
THEA 3395	Acting In Major Roles	3
THEA 4093	Theatre Internship	3

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.75 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Sophomore Gate. In conjunction with classes in acting, dance, and voice, musical theatre majors will participate in an assessment interview at the conclusion of the sophomore year (or end of first year for transfer students) with musical theatre faculty to determine the student's progress and potential for completion of the BFA in Musical Theatre degree.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Musical Theatre with Dance Emphasis is designed to provide graduates with the following marketable skills:

- Creative, analytical, investigative, and pedagogical skills.
- Collaboration and professionalism as a member of a team.
- Expression of ideas both orally and in performance.
- Clear communication and active listening skills.

Bachelor of Fine Arts, Major in Musical Theatre With Theatre Emphasis

A Bachelor of Fine Arts degree in musical theatre is available with an emphasis in theatre or dance. This is a 131-hour degree.

Entry into the musical theatre program is by audition only, and those auditions are scheduled toward the end of every semester. Contact the Department of Theatre and Musical Theatre for information.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-musical-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Musical Theatre With Theatre Emphasis		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation Musical Theatre		
Theatre Course Requirements		
Select two of the following:		2
THEA 1115	Technical Build Crew	
THEA 1116	Costume Crew	
THEA 1117	Management Crew	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
Theatre Block Courses [2]		
The following Block Courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.		
THEA 2336	Voice I for the Actor	3
THEA 2368	Intermediate Acting	3
THEA 3360	History Of The Theatre I	3
THEA 3369	Advanced Acting: Modern Theatre	3
THEA 4094	Special Topics	9
THEA 4190	Senior Showcase	1
THEA 4331	Acting For The Camera	3
THEA 4332	Auditioning For Community Theatre	3
THEA 4366	Directing I	3
THEA 4371	The American Musical Theatre	3
Theatre Emphasis--Musical Theatre Major		
Select 9 hours of electives from the following:		9

THEA 2330	Stage Make Up	
THEA 2337	Voice II for the Actor	
THEA 3331	Advanced Stage Make Up	
THEA 3372	Improvisational Techniques	
THEA 3370	Advanced Acting: Classical Theatre	
THEA 3373	Stage Movement I for the Actor	
THEA 3380	Meisner Technique	
THEA 3396	Realized Performance or Production	
THEA 4093	Theatre Internship	
THEA 4326	Stage Combat	
THEA 4362	Playwriting	
THEA 4367	Directing II	
Dance Course Requirements		
Dance electives (8 semesters)		16
Music Course Requirements		
MTVO 1201	Musical Theatre Applied Voice (4 semesters) [3]	8
MTVO 3201	Musical Theatre Applied Voice (4 semesters) [3]	8
MUSI 1115	Keyboard Harmony I	1
MUSI 1116	Keyboard Harmony II	1
MUSI 1226	Practical Theory I	2
MUSI 1227	Practical Theory II	2
Minor: Not Required [4]		
Total Hours		**131**

1 MATH 1332 is recommended.
2 Block Courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.
3 Or up to 4 hours of THEA 3396, THEA 4093, MUEN XXXX, VOIC XXXX, MUSI XXXX, with departmental approval.
4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so may require additional semester credit hours above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all major coursework.

Sophomore Gate. In conjunction with classes in acting, dance, and voice, musical theatre majors will participate in an assessment interview at the conclusion of the sophomore year (or end of first year for transfer students) with musical theatre faculty to determine the student's progress and potential for completion of the BFA in Musical Theatre degree.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-musical-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Dance Elective[2]	2
Component Area V (p. 90)		3 ENGL 1302[3]	3
Component Area IX (p. 91)		1 MTVO 1201[4]	2
Dance Elective[2]		2 THEA 1115, 1116, or 1117	1
ENGL 1301[3]		3 THEA 2367	3
MTVO 1201[4]		2 THEA 4094[5]	3

THEA 1364		3	
		17	**14**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Dance Elective[2]		2 Dance Elective[2]	2
MTVO 1201[4]		2 MTVO 1201[4]	2
MUSI 1115		1 MUSI 1116	1
MUSI 1226		2 MUSI 1227	2
THEA 2336[5]		3 POLS 2305[6]	3
THEA 2368[5]		3 THEA 4332 or 4366[5]	3
		17	**17**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)		3 Component Area IV (p. 89)	3
Dance Elective[2]		2 Dance Elective[2]	2
HSTY 1301[7]		3 HSTY 1302[7]	3
MTVO 3201[4]		2 MTVO 3201[4]	2
THEA 3369[5]		3 POLS 2306[6]	3
THEA 4366 or 4332[5]		3 THEA 1115, 1116, or 1117	1
		THEA 4371[5]	3
		16	**17**

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)		3 Dance Elective[2]	2
Dance Elective[2]		2 MTVO 3201[4]	2
MTVO 3201[4]		2 THEA 4094[5]	3
THEA 3360[5]		3 THEA 4190[5]	1
THEA 4094[5]		3 THEA 4331[5]	3
THEA Emphasis Electives[8]		3 THEA Emphasis Electives[8]	6
		16	**17**

Total Hours: 131

1. MATH 1332 is recommended.
2. Taken for 8 semesters.
3. Satisfies Core Curriculum requirement for Component Area I (Communication).
4. Or up to 4 hours of THEA 3396, THEA 4093, MUEN XXXX, VOIC XXXX, MUSI XXXX, with departmental approval. Taken for 4 semesters.
5. Block Courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.
6. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
8. Select 9 hours of THEA Emphasis Electives from the course list below.

Code	Title	Hours
THEA Emphasis Electives [9]		
Select 3 of the following:		9
THEA 2330	Stage Make Up	
THEA 2337	Voice II for the Actor	
THEA 3331	Advanced Stage Make Up	
THEA 3370	Advanced Acting: Classical Theatre	
THEA 3372	Improvisational Techniques	
THEA 3373	Stage Movement I for the Actor	
THEA 3380	Meisner Technique	
THEA 3396	Realized Performance or Production	

THEA 4093	Theatre Internship
THEA 4326	Stage Combat
THEA 4362	Playwriting
THEA 4367	Directing II

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all major coursework.

Sophomore Gate. In conjunction with classes in acting, dance, and voice, musical theatre majors will participate in an assessment interview at the conclusion of the sophomore year (or end of first year for transfer students) with musical theatre faculty to determine the student's progress and potential for completion of the BFA in Musical Theatre degree.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Musical Theatre With Theatre Emphasis is designed to provide graduates with the following marketable skills:

- Creative, analytical, investigative, and pedagogical skills.
- Collaboration and professionalism as a member of a team.
- Expression of ideas both orally and in performance.
- Clear communication and active listening skills.

Bachelor of Fine Arts, Major in Theatre-Acting and Directing Emphasis

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts - Major in Theatre - Acting and Directing Emphasis		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation Theatre Acting and Directing Emphasis		
THEA 1115	Technical Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select one of the following:		3
THEA 1330	Introduction to Scenic Technology	
THEA 1331	Introduction to Lighting Technology	
THEA 1332	Introduction to Costume Technology	
THEA 3335	Costume Construction	
THEA 1364	Beginning Acting	3

THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3
THEA 4366	Directing I [2]	3
Theatre Block Courses [2]		
The following courses are restricted until after the successful completion of the program-specific audition / portfolio and interview process.		
THEA 2330	Stage Make Up	3
THEA 2336	Voice I for the Actor [2]	3
THEA 2337	Voice II for the Actor [2]	3
THEA 2368	Intermediate Acting [2]	3
THEA 3114	Theatre Workshop (7 semesters) [2]	7
THEA 3369	Advanced Acting: Modern Theatre [2]	3
THEA 3370	Advanced Acting: Classical Theatre [2]	3
THEA 3373	Stage Movement I for the Actor [2]	3
THEA 4190	Senior Showcase [2]	1
THEA 4332	Auditioning For Community Theatre	3
Select one of the following:		3
THEA 2360	Beginning Design [2]	
THEA 3334	Stage Costume Design [2]	
THEA 3336	Scenic Design [2]	
THEA 3362	Lighting and Sound Design [2]	
THEA 4330	Advanced Scenic Design [2]	
THEA 4361	Stage Lighting [2]	
Select one of the following:		3
THEA 3396	Realized Performance or Production [2]	
THEA 4093	Theatre Internship [2]	
Advanced Acting/Directing Courses:		**6**
Choose two of the following:		
THEA 3372	Improvisational Techniques	
THEA 3374	The Actor & Commedia dell'Arte	
THEA 3380	Meisner Technique	
THEA 4325	Stage Movement II for the Actor	
THEA 4326	Stage Combat	
THEA 4331	Acting For The Camera	
THEA 4367	Directing II	
THEA 4389	Repertory Theatre	
Major: Prescribed Electives		
Theatre or Dance Electives [2]		3
Major: Advanced Prescribed Electives		
Advanced Theatre Electives [2]		10
Minor: Not Required [3]		
Total Hours		**120**

1 MATH 1332 is recommended.

2 These courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.

3 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area V (p. 90)	3	THEA 1115, 1116, or 1117	1
Component Area IX (p. 91)	1	THEA 2367	3
THEA 1115, 1116, or 1117	1	THEA 3114[2]	1
THEA 1364	3	THEA 3373[2]	3
THEA 3114[2]	1		
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
Component Area VI (p. 90)	3	Component Area VI (p. 90)	3
THEA 1115, 1116, or 1117	1	THEA 1330, 1331, 1332, or 3335	3
THEA 2336[2]	3	THEA 2337[2]	3
THEA 2368[2]	3	THEA 3114[2]	1
THEA 3114[2]	1	THEA 3360 or 4360	3
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area IV or THEA 2330	3
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
THEA 3114[2]	1	Component Area IX (p. 91)	3
THEA 3369[2]	3	THEA 3114[2]	1
THEA 4366[2]	3	THEA 4332	3
Advanced Theatre Elective[2]	3	Advanced Acting/Directing Course[2,3]	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
Theatre or Dance Elective[2]	3	THEA 2360, 3334, 3336, 3362, 4330, or 4361[2]	3
THEA 3114[2]	1	THEA 3396 or 4093[2]	3
THEA 3370[2]	3	THEA 4190[2]	1
THEA 4360 or 3360	3	Advanced Theatre Elective[2]	7
Advanced Acting/Directing Course[2,3]	3		
	13		**14**

Total Hours: 120

1 MATH 1332 is recommended.

2 These courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.

3 Select two of the Advanced Acting/Directing Courses from the list below.

Code	Title	Hours
Advanced Acting/Directing Courses [2,3]		
THEA 3372	Improvisational Techniques	3
THEA 3374	The Actor & Commedia dell'Arte	3

THEA 3380	Meisner Technique	3
THEA 4325	Stage Movement II for the Actor	3
THEA 4326	Stage Combat	3
THEA 4331	Acting For The Camera	3
THEA 4367	Directing II	3
THEA 4389	Repertory Theatre	3

Notes

Students must earn a 2.0 minimum ~~a 2.75 minimum~~ overall GPA in all coursework.

Students must meet a 2.5 ~~a 2.75~~ minimum overall major GPA in all major coursework.

Students must earn a 2.0 ~~a 2.75~~ minimum SHSU GPA in all coursework.

Students must meet a 2.5 ~~a 2.75~~ minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all major coursework.

A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Theatre: Acting and Directing Emphasis is designed to provide graduates with the following marketable skills:

- Creative problem solving, taking into account history, practical application, and personnel.
- Work as a team member to solve problems.
- Perform under pressure in a public atmosphere.
- Present ideas and solutions verbally to others.
- Time management.

Bachelor of Fine Arts, Major in Theatre-Design and Technology Emphasis

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Theatre-Design and Technology Emphasis		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ARTS 1316	Drawing	3
ARTS 1303	Art History Survey I [2]	3
Major: Foundation Theatre-Design and Technology Emphasis		
THEA 1115	Technical Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select two of the following:		6

THEA 1330	Introduction to Scenic Technology	
THEA 1331	Introduction to Lighting Technology	
THEA 1332	Introduction to Costume Technology	
or THEA 3335	Costume Construction	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3
THEA 4366	Directing I	3
Theatre Block Courses [3]		
The following courses are restricted until after the successful completion of the program-specific audition / portfolio and interview process.		
Select one of the following not taken for credit above		3
THEA 1330	Introduction to Scenic Technology [3]	
THEA 1331	Introduction to Lighting Technology [3]	
THEA 1332	Introduction to Costume Technology [3]	
or THEA 3335	Costume Construction	
THEA 2361	Computer Drafting in Theatre [3]	3
THEA 3332	Computer Rendering for Theatre [3]	3
THEA 3334	Stage Costume Design [3]	3
THEA 3336	Scenic Design [3]	3
or THEA 4330	Advanced Scenic Design	
THEA 3337	History Of Costume [3]	3
THEA 3362	Lighting and Sound Design [3]	3
or THEA 4361	Stage Lighting	
THEA 4093	Theatre Internship [3]	3
THEA 4365	Portfolio Development [3]	3
Major: Prescribed Electives [4]		
Theatre Electives		21
Minor: Not Required [5]		
Total Hours		**120**

1 MATH 1332 or MATH 1316 is recommended.

2 ARTS 1303 also meets the Core Curriculum requirement for Component Area V (Creative Arts). If utilized for this purpose, additional elective hours in theatre may be taken to fulfill the 120 hours required for the degree.

3 These courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.

4 Theatre electives; at least 15 hours must be upper level.

5 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	THEA 1115, 1116, or 1117	1
THEA 1115, 1116, or 1117	1	THEA 1330, 1331, 1332, or 3335	3
THEA 1330, 1331, 1332, or 3335[2]	3	THEA 2361[2]	3
THEA 1364	3	THEA 2367	3
	14		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area III (p. 89)	4
Component Area VIII (p. 90)	3	Component Area VI (p. 90)	3
Component Area IX (p. 91)	3	Component Area VII (p. 90)	3
THEA 1115, 1116, or 1117	1	THEA 3334[2]	3
THEA 1330, 1331, 1332, or 3335[2]	3	Theatre Electives[3]	3
THEA 3337[2]	3		
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area VII (p. 90)	3
ARTS 1316	3	ARTS 1303[4]	3
THEA 3332[2]	3	THEA 3362 or 4361[2]	3
THEA 3336 or 4330[2]	3	Advanced Theatre Electives[3]	6
Advanced Theatre Electives[3]	3		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
THEA 3360	3	THEA 4360	3
THEA 4093[2]	3	Advanced Theatre Electives[3]	9
THEA 4365[2]	3		
THEA 4366	3		
Theatre Electives[3]	3		
	15		**12**

Total Hours: 120

1. MATH 1332 or MATH 1316 is recommended.
2. These courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.
3. Theatre electives; at least 15 hours must be upper level.
4. ARTS 1303 also meets the Core Curriculum requirement for Component Area V (Creative Arts). If the course is utilized in this way, additional electives in theatre may be taken to fulfill the 120 hours required for the degree.

Notes

Students must earn a 2.0 minimum ~~a 2.75 minimum~~ overall GPA in all coursework.

Students must meet a 2.5 ~~a 2.75~~ minimum overall major GPA in all major coursework.

Students must earn a 2.0 ~~a 2.75~~ minimum SHSU GPA in all coursework.

Students must meet a 2.5 ~~a 2.75~~ minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all major coursework.

A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Theatre - Design and Technology Emphasis is designed to provide graduates with the following marketable skills:

- Creative problem solving, taking into account history, practical application, and personnel.
- Present ideas and solutions verbally to others.
- Practical skills in carpentry, electricity, and sewing - from beginning to advanced. Advanced skills are dependent on the area(s) in which the student specialized. Able to read ground plans. Capability to create original designs in at least one area of emphasis that can be produced by a theatre.
- Work as a team member to solve a variety of problems.
- Adaptability to guarantee that a job is done on time - meeting deadline is a must.

Bachelor of Fine Arts, Major in Theatre-Theatre Studies Emphasis

The BFA in Theatre—Theatre Studies Emphasis provides students with professional training in two student-selected areas of theatre to prepare them to enter the workforce in either area by providing a foundation in general theatre studies and production development along with specialized professional training.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts, Major in Theatre-Theatre Studies Emphasis		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences		3
Component Area IX (Component Area Option)		4
Major: Foundation Theatre-Theatre Studies Emphasis		
THEA 1115	Technical Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select two of the following:		6
THEA 1330	Introduction to Scenic Technology	
THEA 1331	Introduction to Lighting Technology	
THEA 1332	Introduction to Costume Technology	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3
THEA 4366	Directing I	3
Theatre Block Courses [2]		
The following courses are restricted until after the successful completion of the program-specific audition / portfolio and interview process.		
THEA 2368	Intermediate Acting [2]	3
THEA 3365	Stage & Theatre Management [2]	3
TS Module A: Design / Technology		
Select two of the following:		6
THEA 2330	Stage Make Up	
THEA 2360	Beginning Design	

THEA 2361	Computer Drafting in Theatre	
THEA 3335	Costume Construction	
TS Module B: History, Theory, and Criticism		
Select two of the following:		6
DANC 3372	Dance History	
ENGL 3392	Studies in Shakespeare: Comedies and Romances	
ENGL 3391	Studies in Shakespeare: Tragedies and Histories	
THEA 3337	History Of Costume	
THEA 3364	Dramaturgy	
THEA 4092	Independent Study	
THEA 4094	Special Topics	
THEA 4363	Dramatic Theory & Criticism	
THEA 4371	The American Musical Theatre	
TS Module C: Practical Application		
Select two of the following:		6
THEA 3331	Advanced Stage Make Up	
THEA 3332	Computer Rendering for Theatre	
THEA 3334	Stage Costume Design	
THEA 3336	Scenic Design	
THEA 3362	Lighting and Sound Design	
THEA 3363	Property Design for Theatre	
THEA 3372	Improvisational Techniques	
THEA 4094	Special Topics	
THEA 4330	Advanced Scenic Design	
THEA 4331	Acting For The Camera	
THEA 4332	Auditioning For Community Theatre	
THEA 4361	Stage Lighting	
THEA 4362	Playwriting	
THEA 4367	Directing II	
THEA 4368	Experimental Theatre Production	
THEA 4376	Scene Painting	
THEA 4387	Workshop Childrens Creative Drama	
THEA 4388	Theatre Production for Youth	
TS Module D: Capstone		
Select 3 hours from the following:		3
THEA 3114	Theatre Workshop	
THEA 3396	Realized Performance or Production	
THEA 4093	Theatre Internship	
THEA 4365	Portfolio Development	
THEA 4389	Repertory Theatre	
Additional Electives		
Select two of the following:		6
ARTS 2365	Analog Photography	
ARTS 2370	Digital Photography and Media	
ARTS 2375	Photographic Concepts	
COMS 3365	Humor in Communication	
COMS 3370	Intercultural Communication	
COMS 3371	Conflict, Negotiation, and Resolution	
COMS 3374	Persuasion	
ENGL 3334	Literature and Film	
ENGL 3370	Modern Drama	
ENGL 3381	Introduction to Creative Writing: Fiction	

ENGL 3382	Introduction to Creative Writing: Poetry
FAMD 1369	Introduction to Textiles
FAMD 2366	Fashion in Society
INDS 1360	Applied Design Theory
INDS 2361	History of Furnishings I
MCOM 2371	TV & Film Production
MCOM 4022	Special Topic
MCPA 2382	Design for Public Relations and Advertising
MGMT 3310	Principles Of Management
MKTG 3310	Principles Of Marketing
Theatre Electives (15 Adv THEA; 6 Hrs THEA or DANC) [3]	**21**
Minor: Not Required [4]	
Total Hours	**120**

1 MATH 1332 is recommended.

2 These courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.

3 Theatre Electives (A minimum of 15 advanced hours selected with departmental approval and corresponding to a balance of coursework between the student's areas of professional emphasis.)

4 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all Major coursework.

As early as the sophomore year, and not later than the beginning of the junior year, each student, working with the student's academic advisor, will complete and sign a Declaration of Professional Emphases form. Students will indicate two professional areas in which they desire to specialize. This selection will guide both the student and the academic advisor(s) throughout the student's remaining study, with the advisor ensuring that the student's course selection is appropriate for thorough preparation and is balanced between the chosen areas.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area II (p. 89)[1]		3 Component Area III (p. 89)	4
Component Area V (p. 90)		3 Component Area IX (p. 91)	1
THEA 1115, 1116, or 1117		1 THEA 1115, 1116, or 1117	1
THEA 1330, 1331, or 1332		3 THEA 1330, 1331, or 1332	3
THEA 1364		3 THEA 2367	3
	16		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area III (p. 89)	4
Component Area VI (p. 90)		3 Component Area VI (p. 90)	3
THEA 1115, 1116, or 1117		1 THEA 3360	3
THEA 2368[2]		3 THEA 3365[2]	3
THEA Electives[3]		3 TS Module A: Design / Technology[4]	3

TS Module A: Design / Technology[4]	3
	16

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area VII (p. 90)	3
Component Area VIII (p. 90)	3	THEA 4360	3
THEA 4366	3	THEA Advanced Electives[3]	3
TS Module B: History, Theory, and Criticism [4]	3	TS Module B: History, Theory, and Criticism[4]	3
TS Module C: Practical Application [4]	3	TS Module C: Practical Application [4]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	THEA Advanced Electives[3]	6
THEA Advanced Elective[3]	6	Non-Theatre Electives[5]	3
TS Module D: Capstone [4]	3	THEA Electives[3]	3
Non-Theatre Electives[5]	3		
	15		**12**

Total Hours: 120

1. MATH 1332 is recommended.
2. These courses are restricted until after the successful completion of the program-specific audition/portfolio and interview process.
3. Theatre Electives (A minimum of 15 advanced hours selected and six hours of any level theatre or dance electives with departmental approval and corresponding to a balance of coursework between the student's areas of professional emphasis.)
4. See list of TS Modules A, B, C, and D below.
5. See list of Non-Theatre Electives below.

Code	Title	Hours
TS Module A: Design / Technology [4]		**6**
Select two from the following:		
THEA 2330	Stage Make Up	
THEA 2360	Beginning Design	
THEA 2361	Computer Drafting in Theatre	
THEA 3335	Costume Construction	

Code	Title	Hours
TS Module B: History, Theory and Criticism [4]		**6**
Select two from the following:		
DANC 3372	Dance History	
ENGL 3391	Studies in Shakespeare: Tragedies and Histories	
ENGL 3392	Studies in Shakespeare: Comedies and Romances	
THEA 3337	History Of Costume	
THEA 3364	Dramaturgy	
THEA 4092	Independent Study	
THEA 4094	Special Topics	
THEA 4363	Dramatic Theory & Criticism	
THEA 4371	The American Musical Theatre	

Code	Title	Hours
TS Module C: Practical Application [4]		**6**
Select two from the following:		
THEA 3331	Advanced Stage Make Up	
THEA 3332	Computer Rendering for Theatre	
THEA 3334	Stage Costume Design	
THEA 3336	Scenic Design	

THEA 3362	Lighting and Sound Design
THEA 3363	Property Design for Theatre
THEA 3372	Improvisational Techniques
THEA 4094	Special Topics
THEA 4330	Advanced Scenic Design
THEA 4331	Acting For The Camera
THEA 4332	Auditioning For Community Theatre (Auditioning for Commercial Theatre)
THEA 4361	Stage Lighting
THEA 4362	Playwriting
THEA 4367	Directing II
THEA 4368	Experimental Theatre Production
THEA 4376	Scene Painting
THEA 4387	Workshop Childrens Creative Drama
THEA 4388	Theatre Production for Youth

Code	Title	Hours
TS Module D: Capstone [4]		**3**
Select one from the following:		
THEA 3114	Theatre Workshop	
THEA 3396	Realized Performance or Production	
THEA 4093	Theatre Internship	
THEA 4365	Portfolio Development	
THEA 4389	Repertory Theatre	

Code	Title	Hours
Non-Theatre Electives [5]		**6**
Select two of the following:		
ARTS 2365	Analog Photography	
ARTS 2370	Digital Photography and Media	
ARTS 2375	Photographic Concepts	
COMS 3365	Humor in Communication	
COMS 3370	Intercultural Communication	
COMS 3371	Conflict, Negotiation, and Resolution	
COMS 3374	Persuasion	
DANC 3372	Dance History	
ENGL 3334	Literature and Film	
ENGL 3370	Modern Drama	
ENGL 3381	Introduction to Creative Writing: Fiction	
ENGL 3382	Introduction to Creative Writing: Poetry	
ENGL 3391	Studies in Shakespeare: Tragedies and Histories	
ENGL 3392	Studies in Shakespeare: Comedies and Romances	
FAMD 1369	Introduction to Textiles	
FAMD 2366	Fashion in Society	
INDS 1360	Applied Design Theory	
INDS 2361	History of Furnishings I	
MCOM 2371	TV & Film Production	
MCOM 4022	Special Topic	
MCPA 2382	Design for Public Relations and Advertising	
MGMT 3310	Principles Of Management	
MKTG 3310	Principles Of Marketing	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all Major coursework.

As early as the sophomore year, and not later than the beginning of the junior year, each student, working with the student's academic advisor, will complete and sign a Declaration of Professional Emphases form. Students will indicate two professional areas in which they desire to specialize. This selection will guide both the student and the academic advisor(s) throughout the student's remaining study, with the advisor ensuring that the student's course selection is appropriate for thorough preparation and is balanced between the chosen areas.

A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Theatre - Theatre Studies Emphasis is designed to provide graduates with the following marketable skills:

- Work as a team member to solve a variety of problems.
- Creative problem solving, taking into account history, practical application, time, and available personnel.
- Present ideas and solutions verbally and in written form to others.
- Understand the need to produce a finished product on reasonable deadlines.

Bachelor of Fine Arts, Major in Theatre With Teaching Certification

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Fine Arts - Major in Theatre with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation Theatre		
THEA 1115	Technical Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select two of the following: [2]		6
THEA 1330	Introduction to Scenic Technology	
THEA 1331	Introduction to Lighting Technology	
THEA 1332	Introduction to Costume Technology (or) [2]	
or THEA 3335	Costume Construction	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3

Theatre Block Courses		
The following courses are restricted until after the successful completion of the program-specific audition / portfolio and interview process.		
THEA 2330	Stage Make Up	3
THEA 2368	Intermediate Acting	3
THEA 3365	Stage & Theatre Management	3
THEA 4366	Directing I	3
THEA 4387	Workshop Childrens Creative Drama	3
Select one of the following:		3
THEA 3334	Stage Costume Design	
THEA 3336	Scenic Design	
THEA 3362	Lighting and Sound Design	
THEA 4330	Advanced Scenic Design	
THEA 4361	Stage Lighting	
Major: Prescribed Electives [3]		
Theatre Electives with a minimum of fifteen advanced hours		21
Teaching Certification		
CIEE 4392	Student Teaching Elementary School	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
READ 4378	Multiple Literacies in Secondary Education	3
Total Hours		**126**

1 MATH 1332 is recommended.
2 Students may take THEA 1332 or THEA 3335 (not both) toward fulfilling this overall 6-hour requirement.
3 Theatre electives, with a minimum of fifteen advanced hours.

Notes

Students must earn a 2.5 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.5 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a 2.75 minimum GPA (SHSU/Transfer) for all Education coursework.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to earn teacher certification.

Students must earn a "C" or better in all Education coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-fine-arts-in-theatre/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area II (p. 89)[1]		3 Component Area VI (p. 90)	3
Component Area VI (p. 90)		3 THEA 1116	1
THEA 1115		1 THEA 1330, 1331, 1332, or 3335[2]	3
THEA 1330, 1331, 1332, or 3335[2]		3 THEA 2330[3]	3
THEA 1364		3 THEA 2367	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
Component Area IX (p. 91)	4	Component Area V (p. 90)	3
THEA 1117	1	Component Area VII (p. 90)	3
THEA 3360	3	THEA 2368[3]	3
Theatre Electives[4]	6	THEA 3365[3]	3
		Theatre Advanced Electives[4]	3
	18		**18**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VIII (p. 90)	3
Component Area VII (p. 90)	3	CISE 4394	3
CISE 3384	3	READ 4378	3
THEA 3334, 3336, 3362, 4330, or 4361[3]	3	THEA 4360	3
THEA 4366[3]	3	Theatre Advanced Electives[4]	6
THEA 4387[3]	3		
	19		**18**

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CIEE 4392	3
CISE 4379	3	CISE 4380	3
Theatre Advanced Electives[4]	6	CISE 4396	3
	12		**9**

Total Hours: 126

1 MATH 1332 is recommended.
2 Students may take THEA 1332 or THEA 3335 (not both) toward fulfilling this overall 6-hour requirement.
3 These courses are restricted until after the successful completion of the program-specific audition / portfolio and interview process.
4 Theatre electives, with a minimum of fifteen advanced hours.

Notes

Students must earn a 2.5 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.5 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a 2.75 minimum GPA (SHSU/Transfer) for all Education coursework.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to earn teacher certification.

Students must earn a "C" or better in all Education coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BFA in Theatre With Teaching Certification is designed to provide graduates with the following marketable skills:

- Prepare course content appropriate to encourage the growth of students through high school. This includes writing lessons according to TEKS standards. Students also lead lessons in the public schools.
- Time management.
- Acquire skills in at least two of the following areas: performance, directing, sets, costumes, lights, or sound that will benefit the practical productions required by high school teachers as part of their jobs outside of the classroom.

- Work with others from a variety of backgrounds with various skill levels.
- Creative problem solving.

Minor in Theatre

A Minor in Theatre consists of the following courses:

Code	Title	Hours
Minor in Theatre		
Required Courses		
THEA 1115	Technical Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select one of the following:		3
THEA 1330	Introduction to Scenic Technology	
THEA 1331	Introduction to Lighting Technology	
THEA 1332	Introduction to Costume Technology	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
Select one of the following:		3
THEA 3337	History Of Costume	
THEA 3360	History Of The Theatre I	
THEA 4360	History Of The Theatre II	
3 hours of THEA, 3000 or 4000 level, and 3 hours of THEA, any level		6
Total Hours		**21**

School of Music

Accredited by National Association of Schools of Music

Director: Dr. Scott D. Plugge (Mus_SDP@shsu.edu) (936) 294-3808

Website: For faculty specialties, please see School of Music (http://www.shsu.edu/academics/music/)

Mission

The Sam Houston State University School of Music exists as a community of musician-educators whose mission is:

- To educate and train students for lives of service and contribution — as teachers, performers, composers, therapists, and scholars;
- To provide and nurture a nucleus of musical life for the larger community;
- To educate the university student population regarding music's intrinsic value as a part of the human experience and its central role in human culture; and
- To mutually encourage one another in professional growth and attainment.

Our mission encompasses a variety of programs and curricula, traditional and innovative, which are regularly examined for effectiveness, quality, and relevance. It includes our commitment to a combination of:

- Classroom studies in music; and
- The live performance of music, both individually and collectively, as central to music study, development, and knowledge.

As an integral part of our mission, we commit ourselves to continuing steps toward realizing the full potential of community, both as teachers and as colleagues; further, we commit to interaction with our students that emphasizes personal attention and interest in their total musical/intellectual development.

Highlights

All music majors receive training in applied music, music theory, music history, and, where appropriate, professional training specific to a particular field. Each student receives private instruction in his or her principal applied area (such as piano, trumpet, or voice), participates in musical ensembles (such as wind ensemble, orchestra, choir, or jazz band), and is afforded a multitude of opportunities to grow and develop as a musician. Students develop keyboard skills in a state-of-the-art piano lab and have their musical training enhanced in a Computer-Assisted Instruction lab.

Career Opportunities

Graduates of the School of Music are successfully employed around the state, the nation, and internationally as:

- music educators
- music therapists
- music performers
- music scholars
- music composers
- music industry leaders

Program Specific Requirements

General Requirements for Music Majors — Students desiring to major in music must have previous musical experience.

Audition — All students entering the School of Music as music majors or minors must audition in their major performance area and be accepted for a specific degree plan (e.g. Bachelor of Music: Performance, Music Education/Teacher Certification, Composition; Bachelor of Music in Music Therapy, Bachelor of Arts in Music, music minor). Music therapy majors must also schedule and pass an interview with the Music Therapy faculty.

Grades —Students earning a grade below "C" in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Jury — All students enrolled in applied classes (private studio instruction) must take jury examinations at the end of each semester.

Ensemble — All students enrolled in applied classes should perform in an ensemble.

Sophomore proficiency — Before students majoring in music are allowed to enroll for 3000-level courses in applied music, they must pass a proficiency examination/barrier. The exam is normally administered at the end of their fourth semester of study. NOTE: Students are given/allowed three opportunities to pass the barrier. If they do not pass by the third attempt, they cannot continue as music majors.

Piano proficiency — Students must pass a proficiency examination in piano. Students who do not have the requisite skills may enroll in piano classes. Completion of the piano classes with a grade of "C" or better meets the skills requirement for the piano proficiency.

Concert attendance — Students are required to attend 12 performances (from a specified list) each semester for six semesters in all undergraduate Bachelor of Music major tracks. Transfer students may receive a credit or waiver for up to three semesters. Details of this requirement are printed in the School of Music Student Handbook.

Large ensemble — Enrollment in a large ensemble is expected of full-time music majors each fall and spring semester. Music therapy majors must enroll in an ensemble for 6 semesters. The minimum requirement is seven semesters for B.M. Music Education/Teacher Certification track; eight semesters for other B.M. tracks; and six semesters for Music Therapy majors.

- For piano principals (non-performance majors), Collaborative Piano (MUEN 1110/MUEN 3110) will satisfy a portion of this requirement.
- For piano performance majors, Collaborative Piano (MUEN 1110/MUEN 3110) satisfies the major ensemble requirement.
- Further details are printed in the School of Music Student Handbook.
- Freshmen and sophomore students enroll in 1000 and 2000-level ensembles; juniors and seniors enroll in 3000 and 4000-level ensembles.

Undergraduate programs in the School of Music include:

- Bachelor of Arts, Major in Music (p. 259)
- Bachelor of Music, Major in Music With Concentration: Composition (p. 266)
- Bachelor of Music, Major in Music With Concentration: Instrumental Performance (p. 273)
- Bachelor of Music, Major in Music With Concentration: Piano Performance (p. 279)
- Bachelor of Music, Major in Music With Concentration: Vocal Performance (p. 285)
- Bachelor of Music, Major in Music with Teaching Certification: Choral (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-choral/)
- Bachelor of Music, Major in Music with Teaching Certification: Choral/Piano (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-choral-piano/)
- Bachelor of Music, Major in Music with Teaching Certification: Instrumental (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-instrumental/)
- Bachelor of Music, Major in Music with Teaching Certification: String (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-string/)
- Bachelor of Music, Major in Music Therapy (p. 317)
- Undergraduate Certificate in Jazz Studies (p. 324)
- Undergraduate Certificate in Woodwind Performance Pedagogy (p. 325)
- Minor in Arts and Popular Culture (p. 147)
- Minor in Music (p. 327)

Student Organizations

Numerous student organizations actively promote enrichment across a wide array of musical interests.

- **American Choral Directors Association** — national organization for choral directors. Student membership available in organization that fosters and promotes choral music.
- **American String Teachers Association/Symphony Association —** the group's membership consists of string students at Sam Houston State University and was organized to support string pedagogy on the SHSU campus.
- **National Association for Music Education —** national organization for music education. Membership in this student chapter is open to music education majors.
- **Mu Tau Omega —** student organization for music therapy. Membership open to interested students committed to the study and/or advancement of music therapy in community, educational, and clinical settings.
- **Phi Mu Alpha Sinfonia —** international music fraternity for men. Provides valuable service to the school and community.
- **Pi Kappa Lambda —** national music honor society. Invitation to membership is limited to the top students from the junior, senior, and graduate classes by vote of the faculty members of Pi Kappa Lambda.

- **Sigma Alpha Iota —** international music fraternity for women. Provides valuable service to the school and community.
- **Tau Beta Sigma —** national band sorority. Supports band studies and provides valuable support service to instrumental ensembles and to the school.

Internships (Music Therapy)

Following the completion of all coursework, the music therapy student must fulfill a 900-1040 hour (five-six month) clinical internship at an AMTA (American Music Therapy Association) national roster internship site or an SHSU university-affiliated internship site. The intern must be supervised on-site by a qualified and approved MT-BC (Music Therapy-Board Certified) supervisor. The internship is the final requirement for graduating with the bachelor's degree in music therapy. Once it has been completed, the individual is eligible to sit for the CBMT (Certification Board for Music Therapists) certification examination. A passing grade on the exam will result in CBMT certification and the credentials MT-BC.

Scholarships

Scholarships are available both from the School of Music and from the University to support student study. For more information regarding scholarships, prospective or current students should contact the Director of the School of Music. Information on University scholarships may be obtained at the Office of Financial Aid (http://www.shsu.edu/dept/financial-aid/scholarships/) website or by telephone at (936) 294-1774. Interested persons may also gather more information from the School of Music website.

Director/Chair: **Scott D Plugge**

Randy L Adams, MM (mus_rla@shsu.edu), *Professor of Music*, *School of Music*, MM, Northwestern University; BA, Univ of Houston-Main

Mario Aschauer, PHD (mxa072@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, University of Vienna; MA, Univ of Music & Perform Arts; MPHIL, University of Vienna

Scott Patrick Augustine, DMA (spa012@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Illinois-Urbana; MM, Univ of Illinois-Urbana; BM, Stephen F Austin University

Katelyn Jane Blankenburg, MMT (kblankenburg@shsu.edu), *Clinical Assistant Professor of Music*, *School of Music*, MMT, Loyola Univ-New Orleans; BM, Sam Houston State University

Tony Lane Boutte, DMA (txb023@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Eastman School of Music; BFA, Louisiana Tech University

Joshua Martin Bronfman, PHD (jxb102@shsu.edu), *Professor of Music*, *School of Music*, PHD, Florida State University; MA, Oregon State University; BME, Florida State University

Tonya Renae Burton, DMA (trb069@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Rice University; BM, Cleveland Institute of Music

Patricia Card, DMA (mus_ppc@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of North Texas; MMUS, Univ of Michigan; BM, Univ of North Texas

Kevin Mark Clifton, PHD (kmc053@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, Univ of Texas At Austin; MM, Univ of Texas At Austin; BA, Austin College

John M Crabtree, DMA (jmc001@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, LSU & A&M College; MM, LSU & A&M College; BM, Southeastern Louisiana Univ.

Melissa Dawn Cummins, PHD (mdc071@shsu.edu), *Lecturer of Music*, *School of Music*, PHD, Univ of Kansas; MM, Univ of South Dakota; MMED, Southeast Missouri State Univ; BSED, Nw Missouri St Univ

Bryan Scott Stevens Espinosa, PHD (bse013@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of North Texas; MA, Univ of North Texas; BM, Univ of North Texas

Russell Brian Fincher, MM (rbf002@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Univ of North Texas; BM, Sam Houston State University

Juan Carlos Garza, MM (jcg124@shsu.edu), *Lecturer-Pool Faculty of Music*, *School of Music*, MM, Univ of Houston-Main; BM, Stephen F Austin University

Brian K Gibbs, PHD (bxg012@shsu.edu), *Professor of Music and Acting Associate Dean, CAM*, *School of Music*, PHD, Walden University; MS, Amberton University; BM, Southern Methodist University

Naomi Kay Gjevre, DM (nkg003@shsu.edu), *Lecturer of Music*, *School of Music*, DM, Florida State University; MM, Florida State University; BM, Univ of Minnesota-Twin Cities

Dana Rice Guidroz, DMA (drg059@shsu.edu), *Visiting Assistant Professor of Music*, *School of Music*, DMA, Univ of Southern Mississippi; MM, Florida State University; BM, Baylor University

Deborah Rathke Harvey, MM (drh074@shsu.edu), *Assistant Professor of Practice of Music*, *School of Music*, MM, Rice University; BM, Northwestern University

Emily Catherine Howes Heilman, DM (ech035@shsu.edu), *Assistant Professor of Music*, *School of Music*, DM, Florida State University; MM, Univ of Louisville; BM, Univ of Louisville

Sandy Purdum Hinkley, PHD (sxh080@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, Florida State University; MED, Univ of Central Florida; BMED, Florida State University

Henry E. Howey, DMA (mus_heh@shsu.edu), *Professor of Music*, *School of Music*, DMA, University of Iowa; MMUS, Univ of Illinois-Urbana; BMUS, Univ of Illinois-Urbana

Lesley L Hughes, PHD (llh036@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of Wisconsin-Madison; DMA, Univ of Wisconsin-Madison; MA, Univ of Wisconsin-Madison; BM, Univ of Kansas

Boyce William Jeffries, DMA (bwj009@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Toronto; MM, California St Un-Sacramento; BM, California St Un-Sacramento

Kyle Douglas Kindred, DMA (kdk001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Texas At Austin; MM, Univ of Texas At Austin; BM, Wichita State University

Lana Kuscer, DMA (lxk025@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of North Texas; MM, Hochschule fur Musik und Theat; BM, Royal College of Music

John W Lane, DMA (jwl002@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of North Texas; BM, Stephen F Austin University

Yirui Li, DMA (yxl074@shsu.edu), *Lecturer-Pool Faculty of Music*, *School of Music*, DMA, Univ of Oregon; MM, Suny College At Fredonia; BA, Tianjin University

Heath Garrett Martin, MM (hgm002@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *School of Music*, MM, Univ of Houston-Main; BM, Sam Houston State University

Stephen A Martin, MM (stdsam28@shsu.edu), *Lecturer of Music*, *School of Music*, MM, New England Consv/Music; BM, Sam Houston State University

Aaron Paul Martinez, MM (stdapm14@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Sam Houston State University; BM, Sam Houston State University

William Matthew Mc Inturf, DMA (mus_wmm@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of Houston-Main; BMUS, Univ of North Texas

Darla Deann McBryde, MM (dxm121@shsu.edu), *Visiting Assistant Professor of Music*, *School of Music*, MM, Stephen F Austin University; BMED, Baylor University

Rebekah L McQueen, BM (rlc040@shsu.edu), *Lecturer of Music*, *School of Music*, BM, Sam Houston State University

Chris C. Michel, MM (mus_ccm@shsu.edu), *Associate Professor of Music*, *School of Music*, MM, Ohio State University; BM, Baylor University

Robert Benjamin Osborne, MM (rbo002@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Southern Methodist University; BM, Texas Tech University

Megan Joseph Penney, MMED (mjp088@shsu.edu), *Lecturer-Pool Faculty of Music*, *School of Music*, MMED, Univ of Kansas; BA, Texas Christian University; BA, Texas Christian University

Amanda Pepping, DM (ajp028@shsu.edu), *Lecturer of Music*, *School of Music*, DM, Univ of Texas At Austin; MBA, Sam Houston State University; MM, Arizona State University; BM, Arizona State University

Javier A Pinell, DM (jap032@shsu.edu), *Professor of Music*, *School of Music*, DM, Florida State University; MM, Miami University; BM, Wayne State University

Scott D Plugge, DM (mus_sdp@shsu.edu), *Professor and Chair of Music*, *School of Music*, DM, Northwestern University; MM, Northwestern University; BM, Baylor University

Debra A Rawlins, MMED (dhr001@shsu.edu), *Lecturer of Music*, *School of Music*, MMED, Texas Tech University; BMED, Texas Tech University

Rebecca Lee Renfro, DMA (rrg012@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Connecticut; MM, New England Consv/Music; BBA, Sam Houston State University; BM, Sam Houston State University

Diego Ribeiro Caetano, DMA (dxr105@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Colorado; MM, Univ of Wyoming; BM, Federal University of Goias

ILonka Livia Rus, DMA (lir001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Univ of Houston-Main; BM, Oberlin College

Daniel Saenz, DMA (dxs007@shsu.edu), *Associate Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Rice University; BM, Univ of Rochester

Kristin Amanda Sarvela, DMA (kas192@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Illinois-Urbana; MM, Indiana University-Bloomington; BM, Univ of Illinois-Urbana

Aric Lewis Schneller, DMA (als043@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of North Texas; MM, Boston University; MM, Univ of North Texas; BM, Univ of Montana

Michael Anthony Shanks, MM (mas314@shsu.edu), *Lecturer of Musci*, *School of Music*, MM, Berklee College of Music; BA, Univ of Texas At Austin

Colin P. St. Martin, MM (cxs179@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Indiana University

Kristen Renee Stevens, MM (kxs114@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Sam Houston State University; BME, Houston Christian University

Wayman Jerome Stover, DMA (wjs016@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Boston University; MM, Depaul University; BM, Indiana University-Bloomington; BM, Indiana University-Bloomington; DIPL, Yale University

Masahito Sugihara, DM (mxs074@shsu.edu), *Associate Professor of Music*, *School of Music*, DM, Northwestern University; MM, Northwestern University; BM, Temple University

Amanda K Swain, MM (aks078@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Northwestern University; BM, Univ of Texas At Austin

Kayoko Dan Temple, DMA (kayokodan@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Arizona State University; MM, Arizona State University; BM, Univ of Texas At Austin

Mihai Vatca, DMA (mxv029@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Sam Houston State University; BFA, Gheorghe Dima Music Academy

Steve Warkentin, MM (stevewarkentin@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Northwestern University; BM, University of Toronto

Amy Saxton Wiggs, MM (axs116@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Rice University; BM, Rice University

Bachelor of Arts, Major in Music

Required Courses for Majors

Bachelor of Arts in Music - 120 Semester Credit Hours (SCH)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Bachelor of Arts in Music

Code	Title	Hours
Bachelor of Arts, Major in Music		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirement		
Foreign Language [4]		14
Major: Foundation		
MUSI 1181	Class Piano, Level 1 [5]	1
MUSI 1182	Class Piano, Level 2 [5]	1
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
or MUSI 3376	Music History: Antique through Baroque	
Ensembles (5 SCH), Applied Lessons (12 SCH), additional Advanced Music Courses (14 SCH) [6]		
Select five of the following (Two must be Advanced):		5
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	
MUEN 1111/3111	Choral Ensemble	
MUEN 1115/3115	Jazz Band	
MUEN 1116/3116	Band	
MUEN 1117/3117	Orchestra	
MUEN 1119/3119	Opera Workshop	
MUEN 2116/4116	Wind Ensemble	
Applied Lessons - Studio Instruction:		
XXXX1201	Ind. Performances - Applied Lessons, Lower-Level	8
XXXX 3201	Ind. Performances - Applied Lessons, Upper Level [5]	4
Major: Prescribed Electives		**14**
NOTE: No more than 4 additional ensemble hours can be counted toward the degree.		
MUEN 3110	Keyboard Skills & Collaboration Technique	
MUEN 3111	Choral Ensemble	
MUEN 3115	Jazz Band	

MUEN 3116	Band	
MUEN 3117	Orchestra	
MUEN 3118	Chamber Music	
MUEN 3119	Opera Workshop	
MUEN 4116	Wind Ensemble	
Performance/Music Advanced Electives		
XXXX 3201 Ind. Performances (SCH 2) - Applied Lessons: Advanced (May be repeated once for degree credit): [5]		
XXXX 3202 Applied Lessons with Junior Recital: SCH 2 [7]		
MUSI 3362	Orchestration And Analysis	
MUSI 3363	Structure And Analysis (Writing Enhanced)	
MUSI 3364	Improvisation	
MUSI 3367	Studies In Music For Children	
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	
or MUSI 3376	Music History: Antique through Baroque	
MUSI 4224	Conducting II	
MUSI 4373	Electronic Music	
MUSI 4374	20th Century Musical Styles	
MUSI 4375	Film Scoring	
MUSI 4380	Opera Literature	
MUSI 4381	Song History and Literature	
Electives: Advanced		**19**
Advanced Electives (non-music courses only)		
Minor: Not Required [8,9]		
Total Hours		**120**

1. MATH 1332 is the recommended course for students in this degree program.
2. MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
3. MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
4. Four semesters of one language required. An Intermediate I or II language course satisfies 3 credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).
5. Not required if enrolled in PIAN 1201 (Piano Concentration). Additional elective credits must be substituted.
6. Select one of the Ensembles from the table below. Ensembles require advisor and conductor/director/faculty approval.
7. Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.
8. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
9. The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Ensembles: 2 SCH of the 5 SCH must be advanced-level.

Students earning a grade below "C" in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

All BA Degrees require 14 semester hours of foreign language (four semesters of the same language).

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

1000 & 2000 level courses are LOWER-LEVEL (Freshman/Sophomore) and 3000 & 4000 level courses are ADVANCED-LEVEL (Junior/Senior).

General Electives (19 hours): "General Electives" are courses from the University's catalog that can apply to the number of hours required for the BA. These free electives (not Music courses) must include at least 19 hours of advanced-level (3000 and 4000-level) courses (or enough to meet the university's 42 advanced hour minimum).

Advanced Electives: Students should use the advanced electives (3000- or 4000-level courses) to complete the 42 advanced hour requirement for graduation. 120 Hour Requirement: 120 is the minimum number of hours required for graduation.

Other courses may be recommended by an advisor and must be approved by the Director of the School of Music.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		

PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	MUEN XXXX Lower-level Ensemble[2]	1
MUEN XXXX Lower-Level Ensemble[2]	1	MUSI 1182[3]	1
MUSI 1181[3]	1	MUSI 1223	2
MUSI 1222	2	MUSI 1225	2
MUSI 1224	2	XXXX 1201 Ind. Performances-Applied Lessons, Lower Level	2
XXXX 1201 Ind. Performances-Applied Lessons, Lower-Level	2		
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
MUSI 1379[4]	3	Component Area VIII (p. 90)	3
MUSI 2222	2	MUEN XXXX Lower-Level Ensemble[2]	1
MUSI 2224	2	MUSI 2348 (Writing Enhanced)[5]	3
XXXX 1201 Ind. Performances-Applied Lessons, Lower Level	2	XXXX 1201 Ind. Performances-Applied Lessons, Lower Level	2
	16		**15**

Third Year

Fall	Hours	Spring	Hours
Foreign Language[6]	4	Component Area VII (p. 90)	3
MUEN XXXX Upper-Level Ensemble[2]	1	Foreign Language[6]	4
MUSI 3376 or 3377 (Writing Enhanced)	3	MUEN XXXX Upper-Level Ensemble[2]	1
Performance/Music Advanced Electives[7]	5	Performance/Music Advanced Electives[7]	6
XXXX 3201 Ind. Performances-Applied Lessons, Upper Level[8]	2	XXXX 3201 Ind. Performances-Applied Lessons, Upper Level[8]	2
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives (non-music only)	9	Advanced Electives (non-music only)	10
Foreign Language[6]	3	Foreign Language[6]	3
Performance/Music Advanced Electives[7]	3		
	15		**13**

Total Hours: 120

1. MATH 1332 is the recommended course for students in this degree program.
2. Select one of the Ensembles from the table below. Ensembles require advisor and conductor/director/faculty approval.
3. Not required if enrolled in PIAN 1201 (Piano Concentration). Additional elective credits must be substituted.
4. MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
5. Satisfies Core Curriculum requirement for Component Area V (Creative Arts).
6. Four semesters of one language required. An Intermediate I or II language course satisfies 3 credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).
7. Performance/Music Advanced Electives (See list below).

[8] Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

Code	Title	Hours
Ensembles [3]		
MUEN 1110 & MUEN 3110	Keyboard Skills and Collaborative Techniques and Keyboard Skills & Collaboration Technique	2
MUEN 1111 & MUEN 3111	Choral Ensemble and Choral Ensemble	2
MUEN 1115 & MUEN 3115	Jazz Band and Jazz Band	2
MUEN 1116 & MUEN 3116	Band and Band	2
MUEN 1117 & MUEN 3117	Orchestra and Orchestra	2
MUEN 1119 & MUEN 3119	Opera Workshop and Opera Workshop	2
MUEN 2116	Wind Ensemble	1
MUEN 2159	Production Workshop	1

Note: All Electives **must be** upper-level.

Code	Title	Hours
Performance/Music Advanced Electives [7]		
MUEN 3110	Keyboard Skills & Collaboration Technique [1]	1
MUEN 3111	Choral Ensemble [1]	1
MUEN 3115	Jazz Band [1]	1
MUEN 3116	Band [1]	1
MUEN 3117	Orchestra [1]	1
MUEN 3118	Chamber Music [1]	1
MUEN 3119	Opera Workshop [1]	1
MUEN 4116	Wind Ensemble [1]	1
XXXX 3202 Applied Study w/ Jr Recital		2
XXXX Applied Study (may be repeated once for degree credit)		2
MUSI 3362	Orchestration And Analysis	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3364	Improvisation	3
MUSI 3367	Studies In Music For Children	3
MUSI 3376 or MUSI 3377	Music History: Antique through Baroque Music History: Classic to Present	3
MUSI 4224	Conducting II	2
MUSI 4373	Electronic Music	3
MUSI 4374	20th Century Musical Styles	3
MUSI 4375	Film Scoring	3
MUSI 4380	Opera Literature	3
MUSI 4381	Song History and Literature	3

[1] Not more than 4 additional MUEN hours can be counted toward the degree.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Ensembles: 2 SCH of the 5 SCH must be advanced-level.

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

All BA Degrees require 14 semester hours of foreign language (four semesters of the same language).

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

1000 & 2000 level courses are LOWER-LEVEL (Freshman/Sophomore) and 3000 & 4000 level courses are ADVANCED-LEVEL (Junior/Senior).

General Electives (19 hours): "General Electives" are courses from the University's catalog that can apply to the number of hours required for the BA. These free electives (not Music courses) must include at least 19 hours of advanced-level (3000 and 4000-level) courses (or enough to meet the university's 42 advanced hour minimum).

Advanced Electives: Students should use the advanced electives (3000- or 4000-level courses) to complete the 42 advanced hour requirement for graduation. 120 Hour Requirement: 120 is the minimum number of hours required for graduation.

Other courses may be recommended by an advisor and must be approved by the Director of the School of Music.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Music is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music With Concentration: Composition

The curriculum in music composition is designed to prepare the student for graduate study in the field. Students who pursue this degree are those who have career interests as composers/arrangers or as teachers of composition.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Composition		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Sciences)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3

Component Area IX (Component Area Option)		4
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (Composition)		
COMP 1101	Applied Composition I (Taken for four semesters)	4
COMP 3301	Applied Composition II (Taken for four semesters)	12
MUEN XXXX	Lower Level Ensemble	2
MUEN XXXX	Upper Level Ensembles	2
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2182	Class Piano, Level 4	1
MUSI 2226	Conducting I	2
MUSI 3362	Orchestration And Analysis	3
MUSI 4117	Recital	1
MUSI 4365	Counterpoint And Analysis	3
MUSI 4373	Electronic Music	3
XXXX 1201	Ind. Performances-Applied Lessons: Lower Level	8
XXXX 3201	Ind. Performances-Applied Lessons: Upper Level [4]	4
Major: Prescribed Electives		**7**
Select seven hours from the following:		
MUEN 3118	Chamber Music (New Music Ensemble. SCH 1. May be repeated twice.)	
MUEN XXXX	Upper Level Ensembles (two hours total)	
MUSI 3190	Jazz Keyboard Skills	
MUSI 3364	Improvisation	
MUSI 3382	Survey Of Keyboard Literature	
MUSI 4068	Independent Study	
MUSI 4069	Special Topics	
MUSI 4224	Conducting II	
MUSI 4341	Music Industry	
MUSI 4380	Opera Literature	
or MUSI 4381	Song History and Literature	
MUSI 4384	Advanced Keyboard Sightreading	
XXXX 3201/3202	Ind. Performances-Applied Lessons: Upper Level (repeatable once) [4]	
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1332 is the recommended course for students in this degree program.

2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.

3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.

4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.

[5] A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

[6] The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42-advanced hour requirement for graduation.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.

- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2

OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1

Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	MUSI 1379[2]	3
COMP 1101	1	COMP 1101	1
MUEN XXXX (Large Ensemble)	1	MUEN XXXX (Large Ensemble)	1
MUSI 1222	2	MUSI 1182	1
MUSI 1224	2	MUSI 1223	2
MUSI 1181	1	MUSI 1225	2
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VIII (p. 90)	3
COMP 1101	1	COMP 1101	1
MUSI 2181	1	MUSI 2182	1
MUSI 2222	2	MUSI 2223	2
MUSI 2224	2	MUSI 2348 (Writing Enhanced)[3]	3
MUSI 2226	2	XXXX 1201 Ind. Performances-Applied Lessons	2
XXXX 1201 Ind. Performances-Applied Lessons	2		
	17		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area VII (p. 90)	3
COMP 3301	3	COMP 3301	3
MUEN XXXX (Large Ensemble)	1	MUEN XXXX (Large Ensemble)	1
MUSI 3363 (Writing Enhanced)	3	MUSI 3362	3
MUSI 3376	3	MUSI 3377 (Writing Enhanced)	3
XXXX 3201 Ind. Performances-Applied Lessons[4]	2	XXXX 3201 Ind. Performances-Applied Lessons[4]	2
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IX (p. 91)	4
COMP 3301	3	COMP 3301	3
Prescribed Electives[5]	7	MUSI 4117	1
		MUSI 4365	3

	MUSI 4373	3
	14	**14**

Total Hours: 120

1 MATH 1332 is the recommended course for students in this degree program.
2 Satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.
3 Satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.
4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.
5 Select seven hours from the Prescribed Electives course list below.

Code	Title	Hours
Prescribed Electives [5]		
Select seven hours from the following:		
MUEN 3118	Chamber Music (New Music Ensemble. SCH 1. May be repeated twice.)	1
MUEN XXXX	Upper Level Ensembles (two hours)	2
MUSI 3190	Jazz Keyboard Skills	1
MUSI 3364	Improvisation	3
MUSI 3382	Survey Of Keyboard Literature	3
MUSI 4068	Independent Study	1-3
MUSI 4069	Special Topics	3
MUSI 4224	Conducting II	2
MUSI 4341	Music Industry	3
MUSI 4380	Opera Literature	3
or MUSI 4381	Song History and Literature	
MUSI 4384	Advanced Keyboard Sightreading	3
XXXX 3201/3202	Ind. Performances-Applied Lessons: Upper Level (two hours, repeatable once)	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42-advanced hour requirement for graduation.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Concentration: Composition (BM COMP) is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music With Concentration: Instrumental Performance

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Instrumental Performance - (non-keyboard)		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Sciences)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (Instrumental)		
XXXX 1201 Ind. Performances	Applied Lessons: Lower-Level	8
XXXX 3201 Ind. Performances	Applied Lessons: Upper-Level [4]	6
XXXX 3202 Ind. Performances	Applied Lessons with JR Recital [4]	2
MUEN XXXX	Lower-Level Ensembles	4
MUEN XXXX	Upper-Level Ensembles	4
MUEN 1118	Chamber Music	1
MUEN 3118	Chamber Music (taken three times)	3
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2182	Class Piano, Level 4	1
MUSI 2226	Conducting I	2
MUSI 3362	Orchestration And Analysis	3

MUSI 4117	Recital	1
MUSI 4361	Techniques for Wind and String Instruments	3
Major: Prescribed Electives		
MUSI 3364	Improvisation [5]	3
or MUSI 4365	Counterpoint And Analysis	
Select 11 hours from the following:		11
MUSI 3367	Studies In Music For Children	
MUSI 4068	Independent Study	
MUSI 4224	Conducting II	
MUSI 4365	Counterpoint And Analysis	
MUSI 4374	20th Century Musical Styles	
Minor: Not Required [6, 7]		
Total Hours		**120**

1 MATH 1332 is the recommended course for students in this degree program.
2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.
3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.
4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.
5 MUSI 3364 (Fall semester offerings only) may be substituted for MUSI 4365 (Spring semester offerings only).
6 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
7 The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42 advanced hour requirement for graduation.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2

Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2

Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area VI (p. 90)	3
MUEN XXXX Lower-Level Ensemble	1	MUEN XXXX Lower-Level Ensemble	1
MUSI 1181	1	MUSI 1182	1
MUSI 1222	2	MUSI 1223	2
MUSI 1224	2	MUSI 1225	2
XXXX 1201 Ind. Performances-Applied Lessons	2	MUSI 1379[2]	3
		XXXX 1201 Ind. Performances-Applied Lessons	2
	14		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VII (p. 90)	3
MUEN XXXX Lower-Level Ensemble	1	Component Area VIII (p. 90)	3
MUSI 2181	1	MUEN 1118	1
MUSI 2222	2	MUEN XXXX Lower-Level Ensemble	1
MUSI 2224	2	MUSI 2182	1
MUSI 2226	2	MUSI 2223	2
MUSI 2348 (Writing Enhanced)[3]	3	MUSI 3376	3

XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	17		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	Component Area VII (p. 90)	3
MUEN 3118	1	MUEN 3118	1
MUEN XXXX Upper-Level Ensemble	1	MUEN XXXX Upper-Level Ensemble	1
MUSI 3363 (Writing Enhanced)	3	MUSI 3362	3
MUSI 3377 (Writing Enhanced)	3	MUSI 3364 or 4365[6]	3
Prescribed Elective[4]	3	Prescribed Elective[4]	3
XXXX 3201 Ind. Performances-Applied Lessons[5]	2	XXXX 3202 Ind. Performances-Applied Lessons with Junior Recital[5]	2
	14		**16**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	3	MUEN XXXX Upper-Level Ensemble	1
MUEN 3118	1	MUSI 4117	1
MUEN XXXX Upper-Level Ensemble	1	MUSI 4361	3
Prescribed Elective[4]	3	Prescribed Elective[4]	2
XXXX 3201 Ind. Performances-Applied Lessons[5]	2	XXXX 3201 Ind. Performances-Applied Lessons[5]	2
	13		**13**

Total Hours: 120

1. MATH 1332 is the recommended course for students in this degree program.
2. MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.
3. MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.
4. Select from the Prescribed Electives course listing below.
5. Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.
6. MUSI 3364 (Fall semester offerings only) may be substituted for MUSI 4365 (Spring semester offerings only).

Code	Title	Hours
Prescribed Electives [4]		
Select 11 hours from the following:		
MUSI 3367	Studies In Music For Children	3
MUSI 4068	Independent Study	1-3
MUSI 4224	Conducting II	2
MUSI 4365	Counterpoint And Analysis	3
MUSI 4374	20th Century Musical Styles	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42 advanced hour requirement for graduation.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Concentration: Instrumental Performance (BM PERI) is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music With Concentration: Piano Performance

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Piano Performance		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Componenty Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (Piano Performance)		
MUEN 1110	Keyboard Skills and Collaborative Techniques (Taken four semesters)	4
MUEN 1118	Chamber Music	1
MUEN 3110	Keyboard Skills & Collaboration Technique (Taken four semesters)	4

MUEN 3118	Chamber Music	1
MUSI 2226	Conducting I	2
MUSI 3382	Survey Of Keyboard Literature	3
MUSI 4117	Recital	1
MUSI 4322	Keyboard Pedagogy I	3
MUSI 4365	Counterpoint And Analysis	3
PIAN 1201	Individual Performances-Piano (Taken four semesters)	8
PIAN 3201	Individual Performances-Piano (Taken three semesters) [4]	6
PIAN 3202	Applied Piano with Junior Recital [4]	2
Major: Prescribed Electives		
Select 17 hours from the following:		17
MUEN 3118	Chamber Music	
MUSI 3362	Orchestration And Analysis	
MUSI 3364	Improvisation	
MUSI 3383	Advanced Keyboard Literature	
MUSI 4224	Conducting II	
MUSI 4381	Song History and Literature	
MUSI 4384	Advanced Keyboard Sightreading	
MUSI 4385	Advanced Keyboard Harmony	
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1332 is the recommended course for students in this degree program.
2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.
3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.
4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.
5 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
6 The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42 advanced hour requirement for graduation.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		

MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2

Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		

TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area VI (p. 90)	3
Component Area IX (p. 91)	1	MUEN 1110	1
MUEN 1110	1	MUSI 1223	2
MUSI 1222	2	MUSI 1225	2
MUSI 1224	2	MUSI 1379[2]	3
PIAN 1201	2	PIAN 1201	2
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VII (p. 90)	3

MUEN 1110		1 Component Area VIII (p. 90)	3
MUSI 2222		2 MUEN 1110	1
MUSI 2224		2 MUSI 2223	2
MUSI 2226		2 MUSI 3376	3
MUSI 2348 (Writing Enhanced)[3]		3 PIAN 1201	2
PIAN 1201		2	
		16	**14**

Third Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)		3 Component Area VII (p. 90)	3
MUEN 3110		1 MUEN 1118	1
MUSI 3363 (Writing Enhanced)		3 MUEN 3110	1
MUSI 3377 (Writing Enhanced)		3 MUSI 4322	3
PIAN 3201[4]		2 PIAN 3202[4]	2
Prescribed Electives[5]		3 Prescribed Electives[5]	5
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)		3 Component Area III (p. 89)	4
MUEN 3110		1 MUEN 3110	1
MUEN 3118		1 MUSI 4117	1
MUSI 3382		3 MUSI 4365	3
PIAN 3201[4]		2 PIAN 3201[4]	2
Prescribed Electives[5]		6 Prescribed Electives[5]	3
		16	**14**

Total Hours: 120

1 MATH 1332 is the recommended course for students in this degree program.

2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.

3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.

4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.

5 Select from the Prescribed Electives course list below.

Code	Title	Hours
Prescribed Electives [5]		
Select 17 hours from the following:		
MUEN 3118	Chamber Music	1
MUSI 3362	Orchestration And Analysis	3
MUSI 3364	Improvisation	3
MUSI 3383	Advanced Keyboard Literature	3
MUSI 4224	Conducting II	2
MUSI 4381	Song History and Literature	3
MUSI 4384	Advanced Keyboard Sightreading	3
MUSI 4385	Advanced Keyboard Harmony	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42 advanced hour requirement for graduation.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Concentration: Piano Performance (BM PERP) is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music With Concentration: Vocal Performance

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Vocal Performance		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirement		
Foreign Language [4]		8
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3

MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (Vocal Performance)		
MUEN 1111	Choral Ensemble (taken four times)	4
MUEN 1119	Opera Workshop	1
MUEN 3111	Choral Ensemble (taken four times)	4
MUEN 3119	Opera Workshop (taken seven times)	7
MUSI 1160	Singer's Diction: English and Italian	1
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2160	Singer's Diction: German	1
MUSI 2161	Singer's Diction: French	1
MUSI 2181	Class Piano, Level 3	1
MUSI 4117	Recital	1
MUSI 4362	Vocal Pedagogy & Techniques	3
MUSI 4381	Song History and Literature	3
VOIC 1201	Individual Performances-Voice (Taken four semesters)	8
VOIC 3201	Individual Performances-Voice (Taken three semesters) [5]	6
VOIC 3202	Applied Voice with Junior Recital [5]	2
Major: Prescribed Electives		**10**
Select ten hours from the following or others approved by advisor (a minimum of seven hours must be advanced):		
MUEN 3118	Chamber Music (repeatable)	
MUSI 2226	Conducting I	
MUSI 3362	Orchestration And Analysis	
MUSI 3364	Improvisation	
MUSI 4224	Conducting II	
MUSI 4380	Opera Literature	
Minor: Not Required [6,7]		
Total Hours		**128**

1 MATH 1332 is the recommended course for students in this degree program.

2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.

3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.

4 French or German is recommended for students in this degree program.

5 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.

6 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

7 The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42 advanced hour requirement for graduation.

Advanced foreign language courses are strongly encouraged.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		

BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2

SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area IX (p. 91)	1
MUEN 1111	1	MUEN 1111	1
MUEN 1119	1	MUEN 3119	1
MUSI 1160	1	MUSI 1182	1
MUSI 1181	1	MUSI 1223	2
MUSI 1222	2	MUSI 1225	2
MUSI 1224	2	MUSI 1379[2]	3
VOIC 1201	2	MUSI 2160	1
		VOIC 1201	2
	16		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VI (p. 90)	3
Foreign Language[3]	4	Foreign Language[3]	4
MUEN 1111	1	MUEN 1111	1
MUEN 3119	1	MUEN 3119	1
MUSI 2161	1	MUSI 2223	2
MUSI 2181	1	MUSI 2348 (Writing Enhanced)[4]	3
MUSI 2222	2	VOIC 1201	2
MUSI 2224	2		
VOIC 1201	2		
	18		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
MUEN 3111	1	MUEN 3111	1
MUEN 3119	1	MUEN 3119	1
MUSI 3363 (Writing Enhanced)	3	MUSI 3377 (Writing Enhanced)	3
MUSI 3376	3	MUSI 4362	3
VOIC 3201[5]	2	VOIC 3202[5]	2
Prescribed Electives[6]	3	Prescribed Electives[6]	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VIII (p. 90)	3
Component Area VII (p. 90)	3	Component Area IX (p. 91)	3
MUEN 3111	1	MUEN 3111	1
MUEN 3119	1	MUEN 3119	1
MUSI 4381	3	MUSI 4117	1
VOIC 3201[5]	2	VOIC 3201[5]	2
Prescribed Electives[6]	1	Prescribed Electives[6]	3
	15		**14**

Total Hours: 128

1 MATH 1332 is the recommended course for students in this degree program.

2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.

3 French or German is recommended for students in this degree program.

4 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.

5 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.

[6] Select Prescribed Electives (at least seven of ten credit hours must be advanced) from the course list below.

Code	Title	Hours
Prescribed Electives [6]		
Select ten hours from the following or others approved by advisor (a minimum of seven hours must be advanced):		
MUEN 3118	Chamber Music	1
MUSI 2226	Conducting I	2
MUSI 3362	Orchestration And Analysis	3
MUSI 3364	Improvisation	3
MUSI 4224	Conducting II	2
MUSI 4380	Opera Literature	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students should use the electives to complete the 42 advanced hour requirement for graduation.

Advanced foreign language courses are strongly encouraged.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Concentration: Vocal Performance (BM PERV) is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music with Teaching Certification: Choral

This Bachelor of Music degree and teaching certification program, when successfully completed, prepares a student to teach music in early childhood through twelfth grade.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Teaching Certification: Choral		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (Choral)		
MUEN 1111	Choral Ensemble (taken four times)	4
MUEN 3111	Choral Ensemble (taken three times)	3
MUSI 1160	Singer's Diction: English and Italian	1
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2160	Singer's Diction: German	1
MUSI 2161	Singer's Diction: French	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2182	Class Piano, Level 4	1
MUSI 2226	Conducting I	2
MUSI 3112	Instrumental Techniques for Vocalists	1
MUSI 3362	Orchestration And Analysis	3
MUSI 3367	Studies In Music For Children	3
MUSI 4224	Conducting II	2
MUSI 4362	Vocal Pedagogy & Techniques	3
VOIC 1201	Individual Performances-Voice (taken four times)	8
VOIC 3201	Individual Performances-Voice [4]	4
VOIC 3202	Applied Voice with Junior Recital [4]	2
Teaching Certification		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3

READ 4378	Multiple Literacies in Secondary Education	3
Minor: Not Required [5,6]		
Total Hours		**131**

1. MATH 1332 is the recommended course for students in this degree program.
2. MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.
3. MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.
4. Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.
5. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
6. The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1

Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		

GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		

VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area VI (p. 90)	3
MUEN 1111	1	Component Area VII (p. 90)	3
MUSI 1160	1	MUEN 1111	1
MUSI 1181	1	MUSI 1182	1
MUSI 1222	2	MUSI 1223	2
MUSI 1224	2	MUSI 1225	2
MUSI 1379[2]	3	MUSI 2160	1
VOIC 1201	2	VOIC 1201	2
	18		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	Component Area VII (p. 90)	3
MUEN 1111	1	Component Area VIII (p. 90)	3
MUSI 2161	1	MUEN 1111	1
MUSI 2181	1	MUSI 2182	1
MUSI 2222	2	MUSI 2223	2
MUSI 2224	2	MUSI 3376	3
MUSI 2348 (Writing Enhanced)[3]	3	VOIC 1201	2
VOIC 1201	2		
	16		**19**

Third Year

Fall	Hours	Spring	Hours
CISE 3384	3	CISE 4394	3
MUEN 3111	1	READ 4378	3
MUSI 2226	2	MUEN 3111	1

MUSI 3363 (Writing Enhanced)	3	MUSI 3112	1
MUSI 3367	3	MUSI 3362	3
MUSI 3377 (Writing Enhanced)	3	MUSI 4224	2
VOIC 3201[4]	2	MUSI 4362	3
		VOIC 3201[4]	2
	17		**18**

Fourth Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	CISE 4380	3
Component Area IX (p. 91)	3	CIEE 4392	3
CISE 4364	3	CISE 4396	3
CISE 4379	3		
MUEN 3111	1		
VOIC 3202[4]	2		
	16		**9**

Total Hours: 131

1 MATH 1332 is the recommended course for students in this degree program.
2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.
3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.
4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Teaching Certification: Choral is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical/creative thinking, multitasking, and problem-solving skills.

- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music with Teaching Certification: Choral/Piano

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Teaching Certification: Choral/Piano		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (Piano/Choral)		
MUEN 1110	Keyboard Skills and Collaborative Techniques	1
MUEN 1111	Choral Ensemble (taken four times)	4
MUEN 3111	Choral Ensemble (taken two times)	2
MUSI 1160	Singer's Diction: English and Italian	1
MUSI 2160	Singer's Diction: German	1
MUSI 2226	Conducting I	2
MUSI 3112	Instrumental Techniques for Vocalists	1
MUSI 3362	Orchestration And Analysis	3
MUSI 3367	Studies In Music For Children	3
MUSI 4224	Conducting II	2
MUSI 4322	Keyboard Pedagogy I	3
MUSI 4362	Vocal Pedagogy & Techniques	3
PIAN 1201	Individual Performances-Piano (taken four times)	8
PIAN 3201	Individual Performances-Piano [4]	4
PIAN 3202	Applied Piano with Junior Recital [4]	2
VOIC 1201	Individual Performances-Voice (taken two times)	4
Teaching Certification		

CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
READ 4378	Multiple Literacies in Secondary Education	3
Minor: Not Required [5,6]		
Total Hours		**133**

1 MATH 1332 is the recommended course for students in this degree program.
2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.
5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
6 The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2

Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2

Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area VI (p. 90)	3
MUEN 1111	1	Component Area VII (p. 90)	3
MUSI 1160	1	MUEN 1111	1
MUSI 1222	2	MUSI 1223	2
MUSI 1224	2	MUSI 1225	2
MUSI 1379[2]	3	MUSI 2160	1
PIAN 1201	2	PIAN 1201	2
	17		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	Component Area VII (p. 90)	3
MUEN 1110	1	Component Area VIII (p. 90)	3
MUEN 1111	1	MUEN 1111	1
MUSI 2222	2	MUSI 2223	2
MUSI 2224	2	MUSI 3376	3
MUSI 2348 (Writing Enhanced)[3]	3	PIAN 1201	2

PIAN 1201	2
VOIC 1201	2
	17

Third Year

Fall	Hours	Spring	Hours
CISE 3384	3	CISE 4394	3
MUEN 3111	1	READ 4378	3
MUSI 2226	2	MUEN 3111	1
MUSI 3363 (Writing Enhanced)	3	MUSI 3112	1
MUSI 3367	3	MUSI 3362	3
MUSI 3377 (Writing Enhanced)	3	MUSI 4224	2
PIAN 3201[4]	2	MUSI 4362	3
VOIC 1201	2	PIAN 3201[4]	2
	19		**18**

Fourth Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	CISE 4380	3
Component Area IX (p. 91)	3	CIEE 4392	3
CISE 4364	3	CISE 4396	3
CISE 4379	3		
MUSI 4322	3		
PIAN 3202[4]	2		
	18		**9**

Total Hours: 133

1 MATH 1332 is the recommended course for students in this degree program.
2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Teaching Certification: Choral/Piano is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music with Teaching Certification: Instrumental

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Teaching Certification: Instrumental		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (Instrumental)		
MUEN 1116/2116	Band (Taken for four semesters)	4
MUEN 3116/4116	Band (Taken for three semesters)	3
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2226	Conducting I	2
MUSI 3111	Vocal Techniques for Instrumentalists	1
MUSI 3166/3167	Study Of Strings (Taken for two semesters)	2
MUSI 3362	Orchestration And Analysis	3
MUSI 3367	Studies In Music For Children	3

MUSI 4224	Conducting II	2
MUSI 4361	Techniques for Wind and String Instruments	3
Select four hours (specific courses depend on student's primary instrument): [4]		4
MUSI 1166	Study Of Woodwinds	
MUSI 1167	Study Of Woodwinds	
MUSI 2166	Study Of Brasses	
MUSI 2167	Study Of Brasses	
MUSI 3110	Study Of Percussion	
XXXX 1201	Ind. Performances-Applied Lessons Lower-Level	8
XXXX 3201	Ind. Performances-Applied Lessons Upper-Level [5]	4
XXXX 3202	Ind. Performances-Applied Lessons with JR Recital [5]	2
Teaching Certification		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
CIEE 4392	Student Teaching Elementary School	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
READ 4378	Multiple Literacies in Secondary Education	3
Minor: Not Required [6, 7]		
Total Hours		**133**

1. MATH 1332 is the recommended course for students in this degree program.
2. MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy and Culture) and the Major Core.
3. MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and the Major Core.
4. Percussion students take MUSI 1166 & MUSI 1167 (Woodwind) and MUSI 2166 & MUSI 2167 (Brass); Brass students take MUSI 1166 & MUSI 1167 (Woodwind), MUSI 2166 **OR** MUSI 2167 (Brass), and MUSI 3110 (Percussion); Woodwind students take MUSI 2166 & MUSI 2167 (Brass), MUSI 1166 **OR** MUSI 1167 (Woodwind), and MUSI 3110 (Percussion). See Advisor.
5. Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.
6. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
7. The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

Students must earn a 2.5 minimum GPA in all Education coursework (SHSU and cumulative.)

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		

VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2

STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area VI (p. 90)	3
MUEN 1116 or 2116	1	Component Area VII (p. 90)	3
MUSI 1166, 1167, 2166, 2167, or 3110[2]	1	MUEN 1116 or 2116	1

MUSI 1181	1	MUSI 1166, 1167, 2166, 2167, or 3110[2]	1
MUSI 1222	2	MUSI 1182	1
MUSI 1224	2	MUSI 1223	2
MUSI 1379[3]	3	MUSI 1225	2
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	18		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	Component Area VI (p. 90)	3
MUEN 1116 or 2116	1	Component Area VII (p. 90)	3
MUSI 1166, 1167, 2166, 2167, or 3110[2]	1	MUEN 1116 or 2116	1
MUSI 2181	1	MUSI 1166, 1167, 2166, 2167, or 3110[2]	1
MUSI 2222	2	MUSI 2223	2
MUSI 2224	2	MUSI 3376	3
MUSI 2348 (Writing Enhanced)[4]	3	XXXX 1201 Ind. Performances-Applied Lessons	2
XXXX 1201 Ind. Performances-Applied Lessons	2		
	16		**19**

Third Year

Fall	Hours	Spring	Hours
CISE 3384	3	CISE 4394	3
MUEN 3116 or 4116	1	READ 4378	3
MUSI 2226	2	MUEN 3116 or 4116	1
MUSI 3166	1	MUSI 3111	1
MUSI 3363 (Writing Enhanced)	3	MUSI 3167	1
MUSI 3367	3	MUSI 3362	3
MUSI 3377 (Writing Enhanced)	3	MUSI 4224	2
XXXX 3201 Ind. Performances-Applied Lessons[5]	2	MUSI 4361	3
		XXXX 3202 Ind. Performances-Applied Lessons (Junior Recital)[5]	2
	18		**19**

Fourth Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	CISE 4380	3
Component Area IX (p. 91)	3	CIEE 4392	3
CISE 4364	3	CISE 4396	3
CISE 4379	3		
MUEN 3116 or 4116	1		
XXXX 3201 Ind. Performances-Applied Lessons[5]	2		
	16		**9**

Total Hours: 133

1 MATH 1332 is the recommended course for students in this degree program.

2 Percussion students take MUSI 1166 & MUSI 1167 (Woodwind) and MUSI 2166 & MUSI 2167 (Brass); Brass students take MUSI 1166 & MUSI 1167 (Woodwind), MUSI 2166 OR MUSI 2167 (Brass), and MUSI 3110 (Percussion); Woodwind students take MUSI 2166 & MUSI 2167 (Brass), MUSI 1166 **OR** MUSI 1167 (Woodwind), and MUSI 3110 (Percussion). See Advisor.

3 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

4 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

5 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

Students must earn a 2.5 minimum GPA in all Education coursework (SHSU and cumulative).

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Teaching Certification: Instrumental is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical/creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music with Teaching Certification: String

This Bachelor of Music degree and teaching certification program, when successfully completed, prepares a student to teach music in early childhood through twelfth grade.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music, Major in Music With Teaching Certification: String		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Componenty Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [3]	3
MUSI 3363	Structure And Analysis (Writing Enhanced)	3
MUSI 3376	Music History: Antique through Baroque	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
Major: Required (String)		
MUEN 1117	Orchestra (Taken four semesters)	4
MUEN 1118	Chamber Music	1
MUEN 3117	Orchestra (Taken three semesters)	3
MUEN 3118	Chamber Music	1
MUSI 1166	Study Of Woodwinds	1
or MUSI 1167	Study Of Woodwinds	
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2166	Study Of Brasses	1
or MUSI 2167	Study Of Brasses	
MUSI 2181	Class Piano, Level 3	1
MUSI 2226	Conducting I	2
MUSI 3110	Study Of Percussion	1
MUSI 3111	Vocal Techniques for Instrumentalists	1
MUSI 3166	Study Of Strings	1
or MUSI 3167	Study Of Strings	
MUSI 3362	Orchestration And Analysis	3
MUSI 3367	Studies In Music For Children	3
MUSI 4224	Conducting II	2
MUSI 4361	Techniques for Wind and String Instruments	3
XXXX 1201	Ind. Performances-Applied Lessons Lower-Level	8
XXXX 3201	Ind. Performances-Applied Lessons: Upper-Level [4]	4
XXXX 3202	Ind. Performances-Applied Lessons with Jr. Recital [4]	2
Teaching Certification		
CIEE 4392	Student Teaching Elementary School	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
CISE 4396	Student Teaching - Secondary Classroom	3
READ 4378	Multiple Literacies in Secondary Education	3
Minor: Not Required [5, 6]		
Total Hours		**133**

1 MATH 1332 is the recommended course for students in this degree program.

2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.

3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.

[4] Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.

[5] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

[6] The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below "C" in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1

Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		

HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		

MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area VI (p. 90)	3
MUEN 1117	1	Component Area VII (p. 90)	3
MUEN 1118	1	MUEN 1117	1
MUSI 1181	1	MUSI 1166 or 1167	1
MUSI 1222	2	MUSI 1182	1
MUSI 1224	2	MUSI 1223	2
MUSI 1379[2]	3	MUSI 1225	2
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	18		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	Component Area VII (p. 90)	3
MUEN 1117	1	Component Area VIII (p. 90)	3
MUSI 2166 or 2167	1	MUEN 1117	1
MUSI 2181	1	MUSI 2223	2
MUSI 2222	2	MUSI 3111	1
MUSI 2224	2	MUSI 3376	3
MUSI 2348 (Writing Enhanced)[3]	3	XXXX 1201 Ind. Performances-Applied Lessons	2
MUSI 3110	1		
XXXX 1201 Ind. Performances-Applied Lessons	2		
	17		**19**

Third Year

Fall	Hours	Spring	Hours
CISE 3384	3	CISE 4394	3
MUEN 3117	1	READ 4378	3
MUEN 3118	1	MUEN 3117	1
MUSI 2226	2	MUSI 3362	3
MUSI 3166 or 3167	1	MUSI 4224	2
MUSI 3363 (Writing Enhanced)	3	MUSI 4361	3

MUSI 3367		3 XXXX 3201 Ind. Performances-Applied Lessons[4]	2
MUSI 3377 (Writing Enhanced)		3	
XXXX 3201 Ind. Performances-Applied Lessons[4]		2	
	19		**17**

Fourth Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 CISE 4380	3
Component Area IX (p. 91)		3 CIEE 4392	3
CISE 4364		3 CISE 4396	3
CISE 4379		3	
MUEN 3117		1	
XXXX 3202 Ind. Performances-Applied Lessons with Junior Recital [4]		2	
	16		**9**

Total Hours: 133

1 MATH 1332 is the recommended course for students in this degree program.
2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the Major Core.
3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the Major Core.
4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to three times.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students earning a grade below “C” in any music course required for his/her degree or minor in music is required to retake the course. After three failed attempts to earn a "C" or better, the student may be removed from the program.

Students must earn a minimum of a 2.75 GPA (overall or in the last 60 hours) to be accepted into the State Educator Preparation Program.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

Students must earn a "C" or better in all Education coursework.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music With Teaching Certification: String is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.

- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Bachelor of Music, Major in Music Therapy

The Music Therapy curriculum prepares the student for a career as a music therapist and the requisite professional certification. A one-semester internship (6 semester credit hours) is required.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-music-in-music-therapy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Music - Major in Music Therapy		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option)		4
Major: Foundation		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [3]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2226	Conducting I	2
MUSI 2348	Survey of Music Literature (Writing Enhanced) [4]	3
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	3
or MUSI 3376	Music History: Antique through Baroque	
Major: Required		
XXXX 1201	Ind. Performances (Lower-Level Applied Lessons-SCH 2)	8
XXXX 3201	Ind. Performances (Advanced-Level Applied Lessons-SCH 2) [6]	4
MUEN XXXX	Lower-Level Ensemble	4
MUEN XXXX	Upper-Level Ensemble	2
Select 7-10 hours depending on Applied Lesson area (see advisor) [7]		7-10
MUSI 1181	Class Piano, Level 1	
MUSI 1182	Class Piano, Level 2	
MUSI 1303	Fundamentals of Guitar	
MUSI 1304	Fundamentals Of Singing	
MUSI 2181	Class Piano, Level 3	
MUSI 3110	Study Of Percussion	
MUSI 2338	Introduction to Music Therapy	3
MUSI 2339	Psychology Of Music	3
Major: Prescribed Electives [8]		**4**
Select four hours of the following with advisor approval: [8]		
MUSI 3117	Practicum In Music Therapy I [8]	

MUSI 3118	Practicum In Music Therapy II [8]	
MUSI 4110	Practicum In Music Therapy III [6]	
MUSI 4111	Practicum In Music Therapy IV [6]	
MUSI 3336	Instrumental Skills for the Musical Therapy Setting	3
MUSI 3337	Instrumental Skills for the Musical Therapy Setting II	3
MUSI 3365	Observation and Measurement in Music Therapy (Writing Enhanced)	3
MUSI 3366	Music Therapy Techniques I	3
MUSI 4395	Music Therapy Techniques II	3
MUSI 4396	Music Therapy Techniques III	3
MUSI 4397	Internship In Music Therapy (Internship)	3
MUSI 4398	Internship In Music Therapy (Internship)	3
Advanced Electives [9]		3
Clinical Foundation Courses (Required for American Music Therapy Assocication): 13 hours		
BIOL 2401	Human Anatomy [2]	4
or BIOL 2403	Human Anatomy & Physiology I	
PSYC 1301	Introduction To Psychology [5]	3
PSYC 3331	Abnormal Psychology	3
PSYC 3374	Development Psychology	3
Minor: Not Required [10,11]		
Total Hours		**129-132**

1 MATH 1332 is the recommended course for students in this degree program.

2 BIOL 2401 or BIOL 2403 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Clinical Foundation course requirement required for the American Music Therapy Association.

3 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

4 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

5 PSYC 1301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the Clinical Foundation course requirement required for the American Music Therapy Association.

6 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

7 Piano students take MUSI 1303, MUSI 1304 & MUSI 3110. Guitar students take MUSI 1181 MUSI 1182, MUSI 1304, MUSI 2181, & MUSI 3110. Vocal students take MUSI 1181 MUSI 1182, MUSI 1303, MUSI 2181 & MUSI 3110. Percussion students take MUSI 1181 MUSI 1182, MUSI 1303, MUSI 1304, & MUSI 2181. Students not taking Applied Lessons in Piano, Guitar, Voice, or Percussion are required to take all 10 hours of this area. See advisor.

8 Music Therapy students must pass all Professional Disposition and Clinical Musicianship Readiness Evaluations prior to beginning each course in the practicum sequence. Students may attempt each evaluation up to 3 times.

9 Select 3 hours of upper-level hours from MUEN, MUSI (except MUSI 3110), PSYC, HONR, and Ind. Performances (Advanced-Level Applied Lessons XXXX 3201 or 3202) and/or other course with Music Therapy advisor approval.

10 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

11 The following minor cannot be paired with this degree program: Minor in Music.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This program requires a minimum of 1,200 hours of clinical training across practicum and internship. These experiences occur in collaboration with third-party clinical sites and facilities. These sites are legally free to set their own onboarding requirements, which may include, but are not limited to, drug/substance screenings, background checks, and/or health and safety measures, such as evidence of various immunizations. These onboarding activities may incur fees, which are the responsibility of the student and are not reimbursable by the university. Clinical partners and internship sites have the final word as to whether to accept or deny individual practicum or internship students.

SHSU cannot give any assurances or guarantees that we can provide you a path through your necessary clinical assignments, including practicum and internship, that avoids all non-University settings that may mandate various onboarding requirements. If students are unable to be cleared on any of these requirements, they may not be eligible to continue in the program.

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Students should use elective courses and/or a minor (if applicable) to complete the 42 advanced hour requirement for graduation.

Music Therapy students must pass all Professional Disposition and Clinical Musicianship Readiness Evaluations prior to beginning each course in the practicum sequence. Students may attempt each evaluation up to 3 times.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		
VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		

PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2
STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-music-in-music-therapy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area I (p. 88)	3
Component Area IX (p. 91)	1	MUEN XXXX (Lower Level Ensemble)	1
MUEN XXXX (Lower Level Ensemble)	1	MUSI 1182, 1303, 1304, or 3110[2]	1
MUSI 1181, 1303, 1304, or 3110[2]	1	MUSI 1223	2
MUSI 1222	2	MUSI 1225	2
MUSI 1224	2	PSYC 1301[3]	3
MUSI 2338	3	XXXX 1201 Ind. Performances-XXXX	2
XXXX 1201 Ind. Performances-XXXX	2		
	15		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	MUEN XXXX (Lower Level Ensemble)	1
Component Area VI (p. 90)	3	MUSI 1303, 1304, or 3110[2]	3
MUEN XXXX (Lower Level Ensemble)	1	MUSI 2223	2
MUSI 2181, 1303, 1304, or 3110[2]	1	MUSI 2339	3
MUSI 2222	2	MUSI 2348 (Writing Enhanced)[4]	3
MUSI 2224	2	PSYC 3374	3
MUSI 3365 (Writing Enhanced)	3	XXXX 1201 Ind. Performances-XXXX	2
XXXX 1201 Ind. Performances-XXXX	2		
	17		**17**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	MUEN XXXX Upper-Level Ensemble	1
MUEN XXXX Upper-Level Ensemble	1	BIOL 2401 or 2403[7]	4
MUSI 2226	2	MUSI 3110, 1303, or 1304[2]	1
MUSI 3117[5]	1	MUSI 3118[5]	1
MUSI 3336	3	MUSI 3337	3
PSYC 3331	3	MUSI 3366	3
XXXX 3201 Ind. Performances-XXXX[6]	2	XXXX 3201 Ind. Performances-XXXX[6]	2
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
Component Area VII (p. 90)	3	Component Area III (p. 89)	4
Advanced Electives[8]	3	MUSI 3376 or 3377 (Writing Enhanced)	3
MUSI 1379[9]	3	MUSI 4111[5]	1
MUSI 4110[5]	1	MUSI 4396	3
MUSI 4395	3		
	16		**14**

Fifth Year

Fall	Hours
MUSI 4397	3

MUSI 4398	3
	6

Total Hours: 129

1 MATH 1332 is the recommended course for students in this degree program.
2 Piano students take MUSI 1303 MUSI 1304, & MUSI 3110 Guitar students take MUSI 1181 MUSI 1182 MUSI 1304 MUSI 2181 & MUSI 3110. Vocal students take MUSI 1181 MUSI 1182 MUSI 1303, MUSI 2181 & MUSI 3110. Percussion students take MUSI 1181, MUSI 1182 MUSI 1303, MUSI 1304, & MUSI 2181. Students not taking Applied Lessons in Piano, Guitar, Voice, or Percussion are required to take all 10 hours of this area. See advisor.
3 Satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
5 Music Therapy students must pass all Professional Disposition and Clinical Musicianship Readiness Evaluations prior to beginning each course in the practicum sequence. Students may attempt each evaluation up to 3 times.
6 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.
7 BIOL 2401 or BIOL 2403 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
8 Select 3 hours of upper-level hours from MUEN, MUSI (except MUSI 3110), PSYC, HONR, and Ind. Performances (Advanced-Level Applied Lessons XXXX 3201 or 3202) and/or other course with Music Therapy advisor approval.
9 Satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This program requires a minimum of 1,200 hours of clinical training across practicum and internship. These experiences occur in collaboration with third-party clinical sites and facilities. These sites are legally free to set their own onboarding requirements, which may include, but are not limited to, drug/substance screenings, background checks, and/or health and safety measures, such as evidence of various immunizations. These onboarding activities may incur fees, which are the responsibility of the student and are not reimbursable by the university. Clinical partners and internship sites have the final word as to whether to accept or deny individual practicum or internship students.

SHSU cannot give any assurances or guarantees that we can provide you a path through your necessary clinical assignments, including practicum and internship, that avoids all non-University settings that may mandate various onboarding requirements. If students are unable to be cleared on any of these requirements, they may not be eligible to continue in the program.

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Students should use elective courses and/or a minor (if applicable) to complete the 42 advanced hour requirement for graduation.

Music Therapy students must pass all Professional Disposition and Clinical Musicianship Readiness Evaluations prior to beginning each course in the practicum sequence. Students may attempt each evaluation up to three times.

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Music.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BM in Music Therapy (MUST) is designed to provide graduates with the following marketable skills:

- Develop professional-level competence in clinical music therapy as articulated by the American Music Therapy Association.
- Acquire professional and clinical skills applicable to fulfilling supportive staff roles in a variety of healthcare, educational, psychiatric, community, and rehabilitative settings.
- Develop extensive intraprofessional collaboration, decision-making, and problem-solving skills.
- Gain skills in reading and applying research findings to enhance professional interactions with clients.

Undergraduate Certificate in Jazz Studies

The Undergraduate Certificate in Jazz Studies is a non-degree course of study designed for undergraduate music majors interested in training and developing skills in the performance and pedagogy of jazz music. The certificate will provide opportunities to gain skills and practical experiences necessary to become highly competitive as performers and educators in the jazz music field. The educational objective of the certificate is to supplement the current degree tracks of music education and performance.

NOTE: This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Code	Title	Hours
Undergraduate Certificate in Jazz Studies		
Required Courses		
MUEN 1115	Jazz Band (must take four credits total) [1]	4
or MUEN 3115	Jazz Band	
MUEN 1118	Chamber Music (must take two credits total) [1]	2
or MUEN 3118	Chamber Music	
MUSI 3190	Jazz Keyboard Skills	1
MUSI 3364	Improvisation	3
Free Electives		
Select from the following:		2
JAZZ 1201	Applied Jazz Styles and Analysis	
or JAZZ 3201	Applied Jazz Styles and Analysis	
MUEN 3115	Jazz Band (may repeat an additional two times) [1]	
MUEN 3118	Chamber Music (may repeat an additional two times) [1]	
MUSI 4068	Independent Study	
Total Hours		**12**

[1] Ensemble credits may not double dip from the major degree plan.

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Students seeking the Undergraduate Certificate in Jazz Studies must already be accepted as an undergraduate music major and pass an audition with the jazz faculty. Admission for this certificate will be through a School of Music audition and acceptance by the School of Music faculty. The audition must demonstrate technical skill and an understanding of jazz styles on an applied instrument.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX** plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Jazz Studies is designed to provide graduates with the following marketable skills:

- Demonstrate proficient skills on an applied instrument in jazz styles.
- Interpret jazz repertoire, including improvisation, at a level consistent with professional performing.
- Apply jazz techniques to classroom teaching.
- Evaluate jazz music for music preparation, programming, and performance.

Undergraduate Certificate in Woodwind Performance Pedagogy

The objective of the Woodwind Performance Pedagogy certificate is to enhance and expand the pedagogical knowledge of performance ability in woodwind instruments for both music education and performance majors. It is a non-degree course of study designed for undergraduate music students who are interested in intensive training and further development of performance and pedagogy skills in multiple woodwinds. Most music majors enter an undergraduate program with expertise on one woodwind instrument, the primary instrument (woodwinds: flute; oboe; clarinet; bassoon; and saxophone). The certificate will provide opportunities to gain skills and practical experiences necessary to become highly competitive as performers and educators in the music field. The educational objective of the certificate is to supplement an in-depth study of the primary with two additional or secondary woodwind instruments.

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/woodwind-performance-pedagogy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking the Woodwind Performance Pedagogy Certificate must already be accepted as an undergraduate major into the School of Music and pass an interview with the woodwind faculty to be admitted.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/woodwind-performance-pedagogy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Undergraduate Certificate in Woodwind Performance Pedagogy		
Required Courses		
XXXX 3201 (Individual Performances) [1]		4
MUSI 4117	Recital [2]	1
Prescribed Electives		
4 hours selected from two different secondary instruments: (Two credit hours for each instrument)		4
BSSN 1101	Secondary Performances-Bassoon [3]	
CLAR 1101	Secondary Performances-Clarinet [3]	
FLUT 1101	Secondary Performances-Flute [3]	
OBOE 1101	Secondary Performances-Oboe [3]	
SAXO 1101	Secondary Performances-Saxophone [3]	
1 hour ensemble selected from:		1
MUEN 1115/3115	Jazz Band [4]	
MUEN 1116/2116/3116/4116	Band [4]	
MUEN 1118/3118	Chamber Music [4]	
1 additional hour selected from:		1
BSSN 1101	Secondary Performances-Bassoon [5]	
CLAR 1101	Secondary Performances-Clarinet [5]	
FLUT 1101	Secondary Performances-Flute [5]	
OBOE 1101	Secondary Performances-Oboe [5]	
SAXO 1101	Secondary Performances-Saxophone [5]	
MUEN 3118/1118	Chamber Music [5]	
MUEN 1115/3115	Jazz Band [5]	
MUEN 1116/2116/3116/4116	Band [5]	
Select from the following: [5]		3
MUSI 1166	Study Of Woodwinds	
MUSI 1167	Study Of Woodwinds	
MUSI 3190	Jazz Keyboard Skills	
MUSI 3364	Improvisation	
MUSI 4068	Independent Study	
MUSI 4224	Conducting II	
Total Hours		**14**

[1] Students must complete two semesters of XXXX 3201 on their primary instrument. This can double dip from their major.

[2] MUSI 4117 must be in addition to any recital requirement in the major and must include their primary instrument and both secondary instruments.
[3] Students must choose two secondary applied instruments different from their primary instrument as part of the prescribed electives (XXXX 1101) and complete 2 SCH for each instrument.
[4] One additional ensemble on a secondary instrument is required beyond the ensemble requirements of the student's major as part of the prescribed electives.
[5] Ensembles selected in this category can double dip from the major.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX** plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Woodwind Performance Pedagogy is designed to provide graduates with the following marketable skills:

- Demonstrate proficient technical skills on multiple woodwind instruments.
- Apply multiple woodwind techniques to classroom teaching.
- Interpret repertoire and musical ideas on multiple woodwind instruments at a level consistent with professional performing.

Minor in Music

Students who select music as a minor must complete a minimum of 20 hours, at least **six** of which must be advanced (3000 or 4000-level). Up to eight hours of applied music (studio instruction and ensembles) may be used in the minor. To enroll in private instruction or perform in ensembles, students must audition in their respective applied areas and for each ensemble.

Code	Title	Hours
Minor in Music		
Required Courses		
MUSI 1301	Introduction To Study Of Music	3
MUSI 2348	Survey of Music Literature (Writing Enhanced) [1]	3
Advanced Courses		
Select 6 advanced hours from the following:		6
XXXX Ind. Performances-Applied Lessons [2]		
MUEN 3111	Choral Ensemble	
MUEN 3115	Jazz Band	
MUEN 3116	Band	
MUEN 3117	Orchestra	
MUEN 3118	Chamber Music	
MUEN 3119	Opera Workshop	
MUSI 3364	Improvisation	
MUSI 3376	Music History: Antique through Baroque	
MUSI 3377	Music History: Classic to Present (Writing Enhanced)	
MUEN 4116	Wind Ensemble	
MUSI 4373	Electronic Music	
MUSI 4380	Opera Literature	
MUSI 4381	Song History and Literature	
Prescribed Elective Courses		
Select 8 hours from the following:		8
XXXX Ind. Performances-Applied Lessons [2]		
ENSEMBLE - MUEN XXXX [3]		
MUSI 1304	Fundamentals Of Singing	
MUSI 1306	Music Appreciation	
MUSI 1310	History of Rock, Jazz, and Popular Music	
MUSI 2338	Introduction to Music Therapy	
MUSI 2339	Psychology Of Music	
MUSI 2362	Advanced Guitar	
MUSI 3112	Instrumental Techniques for Vocalists	
Total Hours		**20**

1 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) & Minor requirement.
2 Music minors may take up to 8 hours of studio instruction; auditions are required.
3 Music minors may take up to 6 hours of ensembles; auditions are required.

Notes

Students earning a grade below “C” in any music course required for his/her degree or minor in music are required to retake the course. After three failed attempts to earn a C or better, the student may be removed from the program.

Students enrolled in studio instruction must be concurrently enrolled in an ensemble.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students and Wind and Percussion Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Choral Ensemble	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor, and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills and Collaborative Techniques	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Wind and Percussion students in the Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Therapy Majors, music performance majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Individual Performances-Bassoon	2
BSSN 3201	Individual Performances-Bassoon	2
BSSN 3202	Applied Bassoon with Junior Recital	2
Cello		

VNCL 1201	Individual Performances-Violncello	2
VNCL 3201	Individual Performances-Violncello	2
VNCL 3202	Applied Cello with Junior Recital	2
Clarinet		
CLAR 1201	Individual Performances - Clarinet	2
CLAR 3201	Individual Performances - Clarinet	2
CLAR 3202	Applied Clarinet with Junior Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Individual Performances-Euphonium	2
EUPH 3201	Individual Performances-Euphonium	2
EUPH 3202	Applied Euphonium with Junior Recital	2
Flute		
FLUT 1201	Individual Performances-Flute	2
FLUT 3201	Individual Performances-Flute	2
FLUT 3202	Applied Flute with Junior Recital	2
French Horn		
HORN 1201	Individual Performances-French Horn	2
HORN 3201	Individual Performances-French Horn	2
HORN 3202	Applied Horn with Junior Recital	2
Guitar		
GUIT 1201	Individual Performances-Guitar	2
GUIT 3201	Individual Performances-Guitar	2
GUIT 3202	Applied Guitar with Junior Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp with Junior Recital	2
Oboe		
OBOE 1201	Individual Performances-Oboe	2
OBOE 3201	Individual Performances-Oboe	2
OBOE 3202	Applied Oboe with Junior Recital	2
Organ		
ORGN 1201	Individual Performances-Organ	2
ORGN 3201	Individual Performances-Organ I	2
ORGN 3202	Applied Organ with Junior Recital	2
Percussion		
PERC 1201	Individual Performances-Percussion	2
PERC 3201	Individual Performances-Percussion	2
PERC 3202	Applied Percussion w/ Jr Recital	2
Piano		
PIAN 1201	Individual Performances-Piano	2
PIAN 3201	Individual Performances-Piano	2
PIAN 3202	Applied Piano with Junior Recital	2
Saxophone		
SAXO 1201	Individual Performances-Saxophone	2
SAXO 3201	Individual Performances-Saxophone	2
SAXO 3202	Applied Saxophone with Junior Recital	2
String Bass		
STBS 1201	Individual Performances-String Bass	2

STBS 3201	Individual Performances-String Bass	2
STBS 3202	Applied String Bass w/ Jr Recital	2
Trumpet		
TRMT 1201	Individual Performances-Trumpet	2
TRMT 3201	Individual Performances-Trumpet	2
TRMT 3202	Applied Trumpet with Junior Recital	2
Tuba		
TUBA 1201	Individual Performances-Tuba	2
TUBA 3201	Individual Performances-Tuba	2
TUBA 3202	Applied Tuba with Junior Recital	2
Trombone		
TRMB 1201	Individual Performances-Trombone	2
TRMB 3201	Individual Performances-Trombone	2
TRMB 3202	Applied Trombone with Junior Recital	2
Viola		
VIOL 1201	Individual Performances-Viola	2
VIOL 3201	Individual Performances-Viola	2
VIOL 3202	Applied Viola with Junior Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin with Junior Recital	2
Voice		
VOIC 1201	Individual Performances-Voice	2
VOIC 3201	Individual Performances-Voice	2
VOIC 3202	Applied Voice with Junior Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester.

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

College of Business Administration

Administrative Officers

Title/Department	Officer
Dean	Shar Self, Ph.D. sharself@shsu.edu; (936) 294-1254
Senior Associate Dean	Shani N. Robinson, Ph.D., CPA shani.robinson@shsu.edu; (936) 294-4241
Associate Dean	Fred A. Forgey, Ph.D. forgey@shsu.edu; (936) 294-4215
Assistant Dean	Natalie Hegwood, Ph.D. nhegwood@shsu.edu; (936) 294-4887
Department of Accounting	Cassy Henderson, Ph.D., Chair cdh045@shsu.edu; (936) 294-1257
Department of Analytics, Information Systems, and Supply Chain	Gerald Kohers, Ph.D., Chair kohers@shsu.edu; (936) 294-1256
Department of Business Administration and Entrepreneurship	Diana Brown, J.D., Chair dxb029@shsu.edu; (936) 294-2578
Department of Economics and International Business	Mary Funck, Ph.D., Chair mcf012@shsu.edu; (936) 294-1277
Department of Finance and Banking	Mary Funck, Ph.D., Chair mcf012@shsu.edu; (936) 294-1277
Department of Management and Marketing	Irfan Ahmed, Ph.D., Chair mgt_ixa@shsu.edu; (936) 294-1276

Vision Statement

The College of Business Administration will be among the top-ranked colleges of business for upward social mobility and be recognized for having the highest level of student and community impact in the region.

Mission Statement

The College of Business Administration develops impactful business professionals through innovative degree programs, the development of marketable competencies and skills, experiential learning, and community engagement. We focus on student and career success, social mobility, workforce needs, and promoting regional economic growth, emphasizing excellent teaching, impactful scholarship, personalized student services, and strong community connections.

Core Values

- Sense of Community and Belonging. Fostering a caring and supportive community.
- Professional Excellence. Creating a culture of quality and leadership.
- Accountability. Accepting responsibility for our actions.
- Mutual Respect. Demonstrating respect and valuing individual perspectives, achievements, abilities, and qualities.
- Honor and Integrity. Encouraging individuals to build strong relationships through honesty, trust, and dependability.
- Continuous improvement. A culture of continuously striving for improvement in everything we do.

Highlights

The College of Business Administration is accredited by the Association to Advance Collegiate Schools of Business International (AACSB International) and has a nationally recognized chapter of Beta Gamma Sigma. In the United States only one in three business schools have earned this accreditation and worldwide approximately six percent of business programs/schools have earned this prestigious accreditation.

Sam Houston State University was accredited in 2005 as the 17th Professional Golfers' Association of America PGA Golf Management university in the country and the first in the state of Texas. The Professional Golfers' Association of America PGA Golf Management program at Sam Houston State University is designed to produce members of the PGA of America. Successful completion of the four- and one-half-year program will reward the student with a Bachelor of Business Administration (BBA) degree in General Business Administration with a concentration in PGA Golf Management, resulting in Class "A" membership within the PGA of America.

The BBA degrees in accounting, banking and financial institutions, finance, general business administration, management, and marketing may be completed at The Woodlands Center (TWC) in The Woodlands, Texas. The BBA degree in general business administration is also available in a completely online format.

The College is a member of the SAP University Alliance and offers students the opportunity to earn an SAP Certificate of Completion.

The College is home to the Center for Innovation, Technology, and Entrepreneurship providing students with hands-on experience in 3D printing, RFID technology and robotics.

The College hosts the Texas Bankers Hall of Fame.

Each year the College of Business Administration conducts a career fair that offers students the opportunity to interact with over 50 employers from all types of business and not-for-profit organizations.

The College offers an Executive MBA in Banking and Financial Institutions. The EMBA program is a two-year cohort program involving both online and residence coursework.

Academic Programs

Departments	Programs
Accounting	B.B.A.
Banking and Financial Institutions	B.B.A.
Banking and Financial Institutions: Concentration in Commercial Real Estate (as of Spring 2026)	B.B.A.
Career and Technology Program: General Business Concentration	B.A.A.S.
Economics	B.B.A.
Entrepreneurship	B.B.A.
Finance	B.B.A.
Finance: Concentration in Financial Management	B.B.A.
Finance: Concentration in Investments	B.B.A.
General Business Administration	B.B.A.
Human Resource Management	B.B.A.
International Business	B.B.A.
Management	B.B.A.
Management Information Systems	B.B.A.
Marketing	B.B.A.
Supply Chain Management	B.B.A.

Note: This listing of undergraduate degree programs is correct as of December 2018.

Business Minors

The College of Business Administration offers twelve minors: Accounting, Banking, Economics, Entrepreneurship, Finance, General Business Administration, International Business, Management, Management Information Systems, Marketing, Real Estate, and Supply Chain Management. With two exceptions, the minors are open to all students majoring in areas that allow minors. Students majoring in programs within the College of Business Administration may not minor in General Business Administration. The minor in Banking is open only to students seeking a BBA degree or those students pursuing a major in Agricultural Business. Please, see the appropriate departmental section for the specific course requirements for that program's minor(s).

Graduate Programs in the College of Business Administration

- Executive Master of Business Administration in Banking and Financial Institutions (p. 1484)
- Master of Business Administration (p. 1486)
- Master of Science in Accounting (p. 1498)
- Master of Science in Applied Economics (p. 1511)
- Master of Science in Project Management (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/project-management-ms/)

Student Organizations and Honor Societies

- Alpha Kappa Psi
- Association for Business Information Technology Students

- Association of Certified Fraud Examiners
- Association of Supply Chain Management
- Banking and Finance Club
- Beta Alpha Psi
- Beta Gamma Sigma
- COBA Ambassadors
- Collegiate Entrepreneurs' Organization
- International Business and Economics Club
- The Investment Club
- Marketing Student Club
- MBA Student Association
- National Association of Black Accountants
- Omicron Delta Epsilon
- Phi Chi Theta
- Society for Human Resource Management

Additional student organizations may exist within specific majors and/or departments. Please see the appropriate major/department for more details.

Internships and Study Abroad

A student may earn a maximum of six hours in approved, supervised educational work experience in internships. Internship applications are available from the sponsoring academic department. In order to receive academic credit, a student must meet the eligibility conditions, obtain prior approval from the Department Chair of his/her major, and meet the guidelines established by the College of Business Administration for monitoring the quality of the learning experience.

Sam Houston State University offers the unique opportunity for students to earn college credit in other countries including China, Dubai, Germany, Japan, and Scotland. These classes are taught by COBA and other SHSU faculty members, and students have many opportunities to interact with the local community. Field trips to major businesses, museums, and archaeological sites are often included. A limited number of scholarships are available to partially cover the cost. Interested students may contact the Dean's Office or the Office of International Programs for additional information.

Scholarships

Sam Houston State University offers academic scholarship opportunities for **beginning freshmen** who excel in areas of academic achievement and leadership. There are additional competitive scholarship opportunities for **current SHSU and transfer undergraduate students**. Students are encouraged to apply for scholarships using the **Scholarship4Kats** program at Financial Aid (http://www.shsu.edu/dept/financial-aid/). The Scholarship4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level.

Numerous scholarships are available on a competitive basis for currently enrolled students in the College of Business Administration. Applications are typically accepted through **Scholarship4Kats** between October 1 and December 31 for incoming students and between January 2 and December 31 for returning students. Deadlines may change so students are encouraged to check the website for current information. Scholarship recipients are announced in April for the following academic year.

Scholarships vary from year to year and typically include:

- A.J. & Lynn Amato COBA Endowed Scholarship
- Beeson Endowed Scholarship
- Bonnie Vick Kittleband Scholarship
- Brian K. Hall "Covering the Bases" Endowed Scholarship
- Carol Shaw Alpha Chi Omega Scholarship
- Charles R. Carlow Endowed Scholarship
- Douglas C. Fletcher, Sr. Scholarship
- Ed and Genevieve Sandhop Endowed Scholarship
- Ed G. Sandhop Scholarship
- Edward James Crawford Scholarship
- Gibson D. Lewis Scholarship
- G. Scott and Mary S. McCarley Endowed Scholarship
- James E. Gilmore Endowed Scholarship

- Jean D. Neal Scholarship
- J. N. and Vennie Crawford Business Administration Scholarship
- Joe M. “Butch” MacKenzie Scholarship
- John Patrick Singleton (Class of 1965) Memorial Scholarship
- Johnson-Brown-Perkins Scholarship
- J. Roy Wells Scholarship
- Keener Family Scholarship
- Kelly DeHay and Rod Danielson COBA Scholarship
- Loretta J. Hankins COBA Endowment
- Lundy Scholarship
- Michael and Janet Hearn Rohrig Endowment
- Neva and Wesley West Scholarship
- Owen R. Marshall II Endowed Scholarship
- Pay It Forward Scholarship
- Rayford Lacey Hardy and Margie Crawford Hardy Endowed Scholarship
- Roland Hendricks COBA Scholarship in Memory of Thomas and Sadie Hendricks
- Ron Mafrige Endowment for COBA Scholarship in Honor of R. Dean Lewis
- Russell D. Gordy Scholarship
- Thomas K. Harrison Business School Endowment
- Wesley L. Oakes Scholarship
- Wood-Yager Scholarship

University-Specific Requirements

All students are required to complete the University general education requirements (common core) as described in Degree Requirements and Academic Guidelines section in this catalog.

Curriculum

Each Bachelor of Business Administration (BBA) degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required Courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

The Business Core consists of the following courses:

Code	Title	Hours
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3

MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3

[1] Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Minimum GPA Requirements to Earn a BBA Degree

Students must achieve a 2.0 GPA in the following:

- SHSU GPA
- Cumulative GPA (SHSU and transfer)
- SHSU business courses
- Cumulative business courses (SHSU and transfer)
- Minor GPA (if a minor is pursued)

Some majors require a higher GPA and/or have specific grade requirements for courses within the major. Please see the respective departmental section for more details.

Fifty Percent Requirement

At least 50 percent of the required business curriculum for the B.B.A. degree must be taken in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (TWC) (https://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (https://online.shsu.edu/).

Entry to Upper Division Courses

Admission to undergraduate upper division courses, i.e., 3000- and 4000-level, in the College of Business Administration, is limited to students who have completed at least 42 semester hours with a GPA of at least 2.0.

Graduate Studies

The College of Business Administration is authorized to offer the Master of Business Administration (p. 1486), Executive MBA in Banking and Financial Institutions (p. 1484), Master of Science in Accounting (p. 1498), Master of Science in Applied Economics (p. 1511), Master of Science in Project Management (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/project-management-ms/) degrees and Graduate Certificates in Project Methods and Tools (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/project-methods-and-tools-certificate/) and Quality Management Tools (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/quality-management-tools-certificate/). The Graduate Catalog provides additional information regarding graduate studies in the College of Business Administration.

Department of Accounting

Chair: Cassy Henderson (cdh045@shsu.edu), Ph.D. (936) 294-1258

Website: Department of Accounting (http://www.shsu.edu/academics/accounting/)

Department Email: Accounting (cdh045@shsu.edu)

Vision

To be a leading professional accounting department among Texas universities providing a relevant curriculum delivered by professional faculty dedicated to teaching, research, and service.

Mission

Our mission is to prepare our students to enter the accounting profession in the public, industry, and not-for-profit sectors through excellent teaching and pedagogy and through the creation of a sound learning environment. In support of this mission our faculty will produce intellectual contributions that contribute to the professional practice of accounting, to accounting pedagogy, and to discipline based research. We will also maintain a level of interaction with the accounting profession that ensures the continued relevance of our program and viability of our graduates.

Highlights

The Department of Accounting works closely with external stakeholders in CPA firms, industry, government, and nonprofit organizations in order to ensure that the accounting curriculum provides students with the necessary knowledge and skill sets to successfully function as professional accountants upon graduation. Evidence of the success of this process is provided in part by the continued recruitment of SHSU accounting graduates by numerous, diverse employers.

Accounting majors participate in the annual Meet the Firms career fair held in the Fall semester. This function, which first began in 1997 and is organized by the SHSU Chapter of Beta Alpha Psi, the honor organization for financial information students and professionals, is attended by employers that are specifically and many times solely interested in accounting majors and, in some cases, finance majors. Accounting majors, minors, MIS majors, and finance majors from all levels attend this event to begin or to continue their participation in the recruitment and hiring process.

Career Opportunities

There is strong demand for the knowledge and skills possessed by accountants. Exciting career paths are available in public, industry, government, and nonprofit organizations. These career paths include, but are not limited to:

- Public accountant
- Tax accountant
- Cost accountant
- Government accountant
- Budget accountant
- Auditor
- Appraiser
- Budget analyst
- Credit analyst
- Financial examiner
- Tax examiner
- Revenue agent
- Educator

Suggested Minors

No minor is required for students seeking a BBA in Accounting. Students are welcome to select a minor following consultation with the Department Chair, but should be aware that a minor will add hours to the length of the degree program.

The Department of Accounting offers a minor in accounting (p. 342) for students pursuing a major that requires a minor.

Uniform CPA Examination Information

The completion of the BBA in Accounting at SHSU will allow one to meet the educational requirements established by the Texas State Board of Public Accountancy (TSBPA) necessary to take the Uniform CPA examination in Texas. However, the TSBPA requires additional semester credits to be licensed as a CPA in Texas. The Department of Accounting offers the Master of Science in Accounting, whereby, a student may satisfy the further

educational requirements to become licensed in the state of Texas. Students seeking additional information on the Uniform CPA Examination should check the Texas State Board of Public Accountancy homepage (http://www.tsbpa.state.tx.us/).

Program-Specific Requirements

Minimum GPA Requirement for a BBA in Accounting

A cumulative (SHSU and transfer) minimum GPA of 2.5 is required for students to graduate with a BBA in Accounting.

Minimum Grades in Accounting Courses

Accounting majors must make a minimum grade of "C" or better in all accounting (ACCT) courses taken to graduate with a BBA in Accounting.

- Bachelor of Business Administration - Major in Accounting (p. 339)
- Minor in Accounting (p. 342)

Student Organizations and Activities

- Association of Certified Fraud Examiners (ACFE)
- Beta Alpha Psi (BAP)
- National Association of Black Accountants (NABA)
- Student membership in the American Institute of Certified Public Accountants (AICPA)
- Student membership in the Institute of Management Accountants (IMA)
- Student membership in the Texas Society of Certified Public Accountants (TXCPA)

Internships

The Department of Accounting has an active internship program and students are encouraged to participate. Selection requirements are rigorous and involve meeting both the minimum standards set by the Department of Accounting and by the hiring firm or business following an interview process. These internships must meet guidelines established by the Department of Accounting and involve specific, direct accounting training and activity beyond routine clerical and office activities. Students generally participate in public accounting internships in the Spring semester of their senior year. The selection process for these internship positions occurs generally during the early Spring semester of the Junior year. In some cases, internships are available during Summer terms or at other times of the year. Interested students should contact the Accounting Internship Program Director through the Department of Accounting office for departmental selection criteria and application requirements.

Scholarships

Scholarships are available on a competitive basis for accounting majors. Students are encouraged to apply for scholarships using Scholarships4Kats on the Financial Aid (http://www.shsu.edu/dept/financial-aid/scholarships/) website. The Scholarship4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. Department of Accounting scholarship recipients are announced during the Spring semester for the following academic year. The specific scholarships that are available through the Department of Accounting vary from year to year.

Director/Chair: **Cassy Daniels Henderson**

Ouadie Akaaboune, PHD (oxa021@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MACCY, Southern Illinois U-Carbondale; BA, Univ of Hawaii At Manoa

Leslie H Blix, PHD (lhb010@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MS, Cuny Queens College; BS, Hodges University; BA, Univ of Connecticut

Tonya J Blocker, PHD (tjb094@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Florida-Atlantic U; MS, Florida State University; BS, Florida State University

Linda G Carrington, PHD (carrington@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Univ of Maryland-College Park; MBA, Univ of Kentucky; BBA, Eastern Kentucky University

Ronald Jude Daigle, PHD (daigle@shsu.edu), *Distinguished Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Texas Tech University; BS, Univ of South Alabama

Trevor Kendrick England, PHD (txe008@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Kennesaw State University; JD, Nashville School of Law; MS, Univ of Connecticut; LLM, Univ of Alabama-Tuscaloosa; BS, Tennessee Tech University; BS, Tennessee Tech University

Katie Lee Ann Harris, MS (stdkld13@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, MS, Sam Houston State University; BBA, Sam Houston State University

Oscar J Harvin, PHD (ojh002@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Florida-Atlantic U; MBA, Univ of N Florida; BS, Bethune-Cookman University

Cassy Daniels Henderson, PHD (cdh045@shsu.edu), *Professor and Acting Chair of Accounting*, *Department of Accounting*, PHD, Univ of Texas-El Paso; BBA, Univ of Texas-El Paso

Candy Renee Lynch, MS (crl003@shsu.edu), *Associate Professor of Practice in Accounting*, *Department of Accounting*, MS, Sam Houston State University; BBA, Sam Houston State University

Philip W Morris, PHD (aac_pwm@shsu.edu), *Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Univ of Houston-Clear Lake; MBA, Sam Houston State University; BBA, Sam Houston State University

Lindsey Elizabeth Mudge, MS (lxm098@shsu.edu), *Associate Professor of Practice in Accounting*, *Department of Accounting*, MS, Texas A&M University; BBA, Texas A&M University

Daniel Gerard Puhl, MS (dgp016@shsu.edu), *Lecturer of Accounting*, *Department of Accounting*, MS, Liberty University; MSST, US Army War College; MBA, Metropolitan State University; BS, Univ of Minnesota

Shani Nicole Robinson, PHD (snr001@shsu.edu), *Senior Associate Dean, COBA; Adjunct Faculty*, *Department of Accounting*, PHD, Univ of North Texas; MBA, Sam Houston State University; BBA, Sam Houston State University

Jeffery W Strawser, PHD (aac_jws@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BBA, Texas A&M University

William R Strawser, PHD (wxs018@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BA, Univ of Texas At Austin

Jesse Holland Yeager, MS (jho006@shsu.edu), *Lecturer of Accounting*, *Department of Accounting*, MS, Texas A&M University; BBA, Texas A&M University

Bachelor of Business Administration, Major in Accounting

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required Courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-accounting/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Accounting		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ACCT 3313	Intermediate Accounting I	3
ACCT 3314	Intermediate Accounting II	3
ACCT 3324	Accounting Information Systems	3
ACCT 3347	Cost Accounting	3
ACCT 3353	Federal Taxation Concepts	3
ACCT 4317	Advanced Financial Accounting	3
ACCT 4352	Federal Taxation Concepts II	3

ACCT 4372	Auditing Principles	3
Major: Prescribed Electives		
ACCT Prescribed Electives [4]		6
Electives: General		
General Electives [5]		6
Minor: Not Required [6, 7]		
Total Hours		**120**

1. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4. See the course listing below for ACCT Prescribed Electives.
5. Students planning to take the CPA exam should take ACCT 4379.
6. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
7. The following minor cannot be paired with this degree program: Minor in General Business Administration.

Code	Title	Hours
ACCT Prescribed Electives [4]		
ACCT 4325	Emerging Technology in Accounting	3
ACCT 4336	Governmental & Nonprofit Accounting	3
ACCT 4360	Oil And Gas Accounting	3
ACCT 4363	Fraud Examination	3

Notes

Students must earn a 2.5 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A cumulative (SHSU and transfer) minimum GPA of 2.5 is required for students to graduate with a BBA in Accounting.

Accounting majors must make a minimum grade of "C" or better in all accounting (ACCT) courses taken to graduate with a BBA in Accounting.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-accounting/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)[1]	1	Component Area V (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
MATH 1324	3	MGIS 1305 or CSTE 1330	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	ACCT 2302	3
Component Area IX (p. 91)[5]	3	BANA 2372	3
ACCT 2301	3	ECON 2302[7]	3
ECON 2301	3	POLS 2306[6]	3

POLS 2305[6]		3 General Elective[8]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
ACCT 3313		3 ACCT 3314	3
ACCT 3324		3 ACCT 3347	3
FINC 3320		3 BANA 3363	3
MGMT 3310		3 BUAD 3301	3
MKTG 3310		3 MGIS 3310	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3353		3 ACCT 4352	3
ACCT 4317		3 ACCT 4372	3
BUAD 3335		3 MGMT 4390	3
SCMG 3370		3 ACCT Prescribed Elective[9]	3
ACCT Prescribed Elective[9]		3 General Elective[8]	3
		15	**15**

Total Hours: 120

1. The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
6. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8. Students planning to take the CPA exam should take ACCT 4379.
9. See the course listing below for ACCT Prescribed Electives.

Code	Title	Hours
ACCT Prescribed Electives [9]		
ACCT 4325	Emerging Technology in Accounting	3
ACCT 4336	Governmental & Nonprofit Accounting	3
ACCT 4360	Oil And Gas Accounting	3
ACCT 4363	Fraud Examination	3

Notes

Students must earn a 2.5 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A cumulative (SHSU and transfer) minimum GPA of 2.5 is required for students to graduate with a BBA in Accounting.

Accounting majors must make a minimum grade of "C" or better in all accounting (ACCT) courses taken to graduate with a BBA in Accounting.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Accounting is designed to provide graduates with the following marketable skills:

- **Measurement Analysis and Interpretation:** Our graduates will identify and apply appropriate, reliable, and verifiable measurements to analyze data for a given purpose and intended use.
- **Reporting:** Our graduates will identify the appropriate content and communicate clearly and objectively to the intended audience, the work performed and the results as governed by professional standards, required by law, or dictated by the business environment.
- **Research:** Our graduates will identify, access, and apply relevant professional frameworks, standards, and guidance, as well as other information for analysis to make informed decisions.
- **Risk Assessment, Analysis, and Management:** Our graduates will assess, analyze, and manage risk using appropriate frameworks, professional judgment, and skepticism for effective business management.
- **Systems and Process Management:** Our graduates will identify the appropriate businesses processes and system(s) and the related framework and controls to assist in the design and use of systems for efficient and effective operations.
- **Technology and Tools:** Our graduates will identify and utilize relevant technology and tools to analyze data, efficiently and effectively perform assigned tasks, as well as support other competencies.

Minor in Accounting

An eighteen (18) hour minor in Accounting is available to all bachelor's degree programs that permit a minor. The minor in Accounting requires the following courses with a minimum grade point average of 2.0, both in residence at SHSU and overall (SHSU and transfer combined).

Code	Title	Hours
Minor in Accounting		
Required Courses		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
ACCT 3313	Intermediate Accounting I	3
9 additional advanced hours (3000-level or above) hours in Accounting, excluding ACCT 3304 and ACCT 4379		9
Total Hours		**18**

Furthermore, degree candidates for a minor in Accounting must achieve a minimum 2.0 grade point average for all hours attempted in accounting courses, both in residence and overall (SHSU and transfer combined).

Department of Analytics, Information Systems, and Supply Chain

Chair: Gerald Kohers, Ph.D. (kohers@shsu.edu); (936) 294-1256

Website: Forthcoming

Vision

The Department of Analytics, Information Systems, and Supply Chain aspires to develop professionals to be leaders by offering a high quality education in business analytics by offering undergraduate major degree programs in Information Systems and Supply Chain and a Master of Science degree in Project Management (p. 1502).

Mission

The Analytics, Information Systems, and Supply Chain Department's mission is to equip students with the requisite knowledge and skills in business analytics, information systems, supply chain management, project management, and related careers. The department is committed to excellence in teaching, intellectual contributions, and service.

Academic Programs

The **Management Information Systems degree program (p. 344) (MIS)** is designed to provide students with the business and technical knowledge and skills necessary to function in areas such as database management, software development, information technology (IT) infrastructure management, and IT project management. The MIS program also incorporates SAP and Microsoft certification exams in those areas.

The **Supply Chain Management degree program (p. 348) (SCMG)** is targeted toward undergraduates pursuing a career in various supply chain related areas in a wide array of industries. Students pursuing the supply chain major will acquire knowledge, analytical skills, tools, and techniques to meet the challenges in supply chain related positions. The major will enable students to develop competencies and prepare them to perform in the supply chain arena, both functionally and strategically.

- Bachelor of Business Administration, Major in Management Information Systems (p. 344)
- Bachelor of Business Administration, Major in Supply Chain Management (p. 348)
- Minor in Business Data Analytics (p. 352)
- Minor in Management Information Systems (p. 353)
- Minor in Supply Chain Management (p. 354)

Student Organizations

The following student organizations are affiliated with the Department of Analytics, Information Systems, and Supply Chain:

- Information Technology Students Association (ITSA)
- Association for Supply Chain Management (ASCM)

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarships4Kats (https://shsu.academicworks.com/) program on the Financial Aid (http://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for College of Business Administration scholarships is December 31. The specific scholarships available in the Department of Management and Marketing vary from year-to-year and may include:

- Ed and Daphne Sower Memorial Scholarship (available to freshmen majoring in Supply Chain Management)
- Lovell Family Endowed Scholarships
- Victor E. and Judith Sower Scholarship

Please see the College of Business Administration section (p. 331) for information on college and university-level scholarships.

Information forthcoming.

Bachelor of Business Administration, Major in Management Information Systems

Each BBA degree consists of:

- University Core Curriculum
- Business Core
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-management-information-systems/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Management Information Systems		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
MGIS 3315	Programming for Business	3
MGIS 3320	E-Commerce Implementation	3
MGIS 3330	Business Database Management	3
MGIS 4315	Decision Analysis & Analytics	3
MGIS 4330	Business Database Management II	3

MGIS 4340	Systems Analysis & Design	3
MGIS 4350	Business Network Management	3
Major: Prescribed Electives		
MIS Technical Electives [4]		12
Electives: General		
General Electives		3
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 Choose four courses from the list of MIS Technical Electives below.

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 The following minor cannot be paired with this degree program: Minor in General Business Administration.

Code	Title	Hours
MIS Technical Electives [4]		
Select four from the following:		12
MGIS (3000 or 4000) level course, not including required MGIS courses		
ACCT 3324	Accounting Information Systems	
BANA 4365	Introduction To Business Forecasting & Economics	
or ECON 4365	Introduction to Business Forecasting and Economics	
COSC 1436	Programming Fundamentals I	
COSC 1437	Programming Fundamentals II	
COSC 2327	Introduction to Computer Networks	
COSC 2347	Special Topics/Programming	
DFSC 1316	Digital Forensics & Information Assurance Fundamentals I	
GEOG 2464	Introduction to Geographic Information Systems (GIS)	
SCMG 4350	Project Management	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-management-information-systems/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)[1]	1	Component Area V (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
MATH 1324[4]	3	MGIS 1305 or CSTE 1330	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 General Electives	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BUAD 3301		3 BANA 3363	3
FINC 3320		3 MGIS 3330	3
MGIS 3310		3 MKTG 3310	3
MGIS 3315		3 SCMG 3370	3
MGMT 3310		3 MIS Technical Electives [8]	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
BUAD 3335		3 MGIS 3320	3
MGIS 4315		3 MGIS 4340	3
MGIS 4330		3 MGMT 4390	3
MGIS 4350		3 MIS Technical Electives [8]	3
MIS Technical Electives [8]		3 MIS Technical Electives [8]	3
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).

7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

8 Choose four courses from the list of MIS Technical Electives below.

Code	Title	Hours
MIS Technical Electives [8]		
Select four from the following:		12
MGIS (3000 or 4000) level course, not including required MGIS courses		
ACCT 3324	Accounting Information Systems	
BANA 4365	Introduction To Business Forecasting & Economics	
or ECON 4365	Introduction to Business Forecasting and Economics	
COSC 1436	Programming Fundamentals I	
COSC 1437	Programming Fundamentals II	
COSC 2327	Introduction to Computer Networks	
COSC 2347	Special Topics/Programming	
DFSC 1316	Digital Forensics & Information Assurance Fundamentals I	
GEOG 2464	Introduction to Geographic Information Systems (GIS)	
SCMG 4350	Project Management	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Management Information Systems is designed to provide graduates with the following marketable skills:

- Critical thinking and problem solving.
- Technical competence.
- Oral and written communication.
- Understanding core business functions.

Bachelor of Business Administration, Major in Supply Chain Management

Each BBA degree consists of:

- University Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)
- Business Core
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-supply-chain-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Supply Chain Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Required Courses		
MGIS 4315	Decision Analysis & Analytics	3
SCMG 3372	Supply Chain Management	3
SCMG 3374	Strategic Sourcing/Procurement	3
SCMG 3376	Global Supply Chain Logistics	3
SCMG 4378	Supply Chain ERP	3

Major: Prescribed Electives	
Supply Chain Management Technical Electives [4]	12
Electives: Advanced Business	6
Electives: General	
General Electives	3
Minor: Not Required [5, 6]	
Total Hours	**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 Select four courses from the Supply Chain Management Technical Electives course listing below.

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 The following minors cannot be paired with this degree program: Minor in Management; Minor in General Business Administration.

Code	Title	Hours
Supply Chain Management Technical Electives [4]		**12**
Select four courses from the following:		
ACCT 3324	Accounting Information Systems	
BANA 4365	Introduction To Business Forecasting & Economics	
or ECON 4365	Introduction to Business Forecasting and Economics	
BANA 4373	Advanced Business Analytics for Economics and Business	
ECON 4362	Econometrics for Business	
FINC 3330	Financial Spreadsheet Modeling	
MGIS 3330	Business Database Management	
MGIS 4330	Business Database Management II	
MGMT 3325	New Product Commercialization	
MKTG 4350	Marketing Research	
SCMG 4350	Project Management	
SCMG 4365	Service Operations Management	
SCMG 4375	Quality Management	
SCMG 4376	Management Science	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Management; Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-supply-chain-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[1]		1 Component Area III (p. 89)	4
Component Area III (p. 89)		4 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 General Electives	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 Electives: Advanced Business	3
BUAD 3335		3 BUAD 3301	3
FINC 3320		3 MGIS 3310	3
MGMT 3310		3 SCMG 3370	3
MKTG 3310		3 SCMG 3372	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
Electives: Advanced Business		3 MGMT 4390	3
MGIS 4315		3 SCMG 3376	3
Supply Chain Management Technical Elective [8]		3 Supply Chain Management Technical Elective[8]	3
SCMG 3374		3 Supply Chain Management Technical Elective [8]	3
SCMG 4378		3 Supply Chain Management Technical Elective [8]	3
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).

7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

8 Select four courses from the Supply Chain Management Technical Electives course listing below.

Code	Title	Hours
Supply Chain Management Technical Electives [8]		**12**
Select four courses from the following:		
ACCT 3324	Accounting Information Systems	
BANA 4365	Introduction To Business Forecasting & Economics	
or ECON 4365	Introduction to Business Forecasting and Economics	
BANA 4373	Advanced Business Analytics for Economics and Business	
ECON 4362	Econometrics for Business	

FINC 3330	Financial Spreadsheet Modeling
MGIS 3330	Business Database Management
MGIS 4330	Business Database Management II
MGMT 3325	New Product Commercialization
MKTG 4350	Marketing Research
SCMG 4350	Project Management
SCMG 4365	Service Operations Management
SCMG 4375	Quality Management
SCMG 4376	Management Science

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Management; Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Supply Chain Management is designed to provide graduates with the following marketable skills:

- Critical thinking.
- Oral and written communication.
- Global perspective on organizations.
- End-to-end supply chain functional knowledge.
- Process management, teamwork, and leadership ability.

Minor in Business Data Analytics

A Minor in Business Data Analytics (18 hours) is available for all bachelor's degree programs that permit a minor. Students enrolled in the Business Data Analytics minor will acquire knowledge, analytical skills, and software/programming skills that will prepare them for entry-level positions in business data analytics or for further training in business data analytics. The minor provides valuable training for those pursuing careers in business, banking, finance, healthcare administration, real estate, and public administration.

Code	Title	Hours
Minor in Business Data Analytics		
Required Courses		
Prescribed Electives: Techniques		
Select three from the following:		9
BANA 4365	Introduction To Business Forecasting & Economics	
ECON 4362	Econometrics for Business	
MGIS 4315	Decision Analysis & Analytics	
MKTG 4350	Marketing Research	
Prescribed Electives: Skills		
Select three from the following:		9
ACCT 4325	Emerging Technology in Accounting	
BANA 4373	Advanced Business Analytics for Economics and Business	
FINC 3330	Financial Spreadsheet Modeling	
MGIS 3330	Business Database Management	
MGIS 4330	Business Database Management II	
Total Hours		**18**

The Minor in Business Data Analytics is also available to majors outside of the College of Business Administration. In addition to the courses listed, the following (or comparable) courses may be required for non-business majors to obtain the Minor in Business Data Analytics, depending on the specific courses selected to complete the minor: ACCT 2301, ACCT 2302, ACCT 3313, BANA 2372, BANA 3363, ECON 2301, ECON 2302, FINC 3320, MGIS 3310, and/or MKTG 3310.

Furthermore, degree candidates for a Minor in Business Data Analytics must achieve a minimum 2.0 grade point average for all hours attempted in business courses, including in residence and transfer hours whether required for the Business Data Analytics minor or not.

Minor in Management Information Systems

A Minor in Management Information Systems (18 hours) is available for all bachelor's degree programs that permit a minor. The Minor in Management Information Systems requires the following courses with a minimum grade point average of 2.0 in residence at SHSU and overall.

Code	Title	Hours
Minor in Management Information Systems		
Required Courses		
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGIS 3330	Business Database Management	3
12 additional hours in MGIS courses		12
Total Hours		**18**

Furthermore, degree candidates for a Minor in Management Information Systems must achieve a minimum 2.0 grade point average for all hours attempted in management information systems courses, in residence at SHSU and overall (SHSU and transfer combined).

Minor in Supply Chain Management

A Minor in Supply Chain Management (18 hours) is available for all bachelor's degree programs that permit a minor. The Minor in Supply Chain Management requires the following courses with a minimum grade point average of 2.0 in residence at SHSU and overall.

Code	Title	Hours
Minor in Supply Chain Management		
Required Courses		
MGMT 3310	Principles Of Management	3
SCMG 3370	Operations Management	3
SCMG 3372	Supply Chain Management	3
Prescribed Elective Courses		
Select 3 courses from the following:		9
BANA 4365	Introduction To Business Forecasting & Economics	
or ECON 4365	Introduction to Business Forecasting and Economics	
MGIS 3330	Business Database Management	
MGIS 4315	Decision Analysis & Analytics	
SCMG 3374	Strategic Sourcing/Procurement	
SCMG 3376	Global Supply Chain Logistics	
SCMG 4375	Quality Management	
SCMG 4376	Management Science	
SCMG 4378	Supply Chain ERP	
Total Hours		**18**

Furthermore, degree candidates for a Minor in Supply Chain Management must achieve a minimum 2.0 grade point average for all hours attempted in supply chain management courses, in residence at SHSU and overall (SHSU and transfer combined).

Department of Business Administration and Entrepreneurship

Chair: Dr. Diana Brown (dxb029@SHSU.EDU)
Phone: (936) 294-2578
Website: Department of Business Administration and Entrepreneurship

Vision

To deliver outstanding Business Administration and Entrepreneurship programs with faculty that are recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of Business Administration and Entrepreneurship is to assist in fulfilling the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The academic foundation leading to a Bachelor of Business Administration degree in Business Administration or Entrepreneurship is designed to arouse intellectual curiosity, develop analytical reasoning, and provide historical and current information relative to the global environment.

Academic Programs

The **Business Administration** degree program provides a solid foundation in business and sufficient electives to customize a degree plan for directed career paths.

The **Entrepreneurship** degree program prepares students to serve as chief executive officers of start-up and growth-oriented businesses and to apply entrepreneurial principles in positions of responsibility in larger business enterprises and not-for-profit organizations.

Highlights

The Department of Business Administration and Entrepreneurship participates in the certified Professional Golf Association of America's Professional Golf Management program with participating students receiving the BBA degree in Business Administration with a concentration in PGA Professional Golf Management.

Suggested Minors

An Minor in Entrepreneurship would be very beneficial to students anticipating starting or running their own businesses.

Business Administration majors should consider a minor in one of the approved business minors to provide depth of knowledge in at least one business field.

- Accounting (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/business/minor-accounting/)
- Banking (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/general-business-finance/minor-banking/)
- Business Data Analytics (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/economics-international-business/minor-data-analytics/)
- Economics (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/economics-international-business/minor-economics/)
- Entrepreneurship (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/general-business-finance/minor-entrepreneurship/)
- Finance (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/general-business-finance/minor-finance/)
- International Business (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/economics-international-business/minor-international-business/)
- Management (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/management-marketing-and-information-systems/minor-management/)
- Management Information Systems (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/management-marketing-and-information-systems/minor-management-information-systems/)
- Marketing (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/management-marketing-and-information-systems/minor-marketing/)
- Real Estate (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/business-administration-and-entrepreneurship/minor-real-estate/)

- Supply Chain Management (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/management-marketing-and-information-systems/supply-chain-management/)

Career Opportunities

The Business Administration and Entrepreneurship degree programs are designed to prepare students for careers in business, government, or not-for-profit entities; to include the core business courses required for admission to master's or other professional programs; or to be combined with a sequence of professional education courses and other requirements by the College of Education to earn a certificate to teach in secondary schools.

- Bachelor of Applied Arts and Sciences: General Business Concentration (p. 932)
- Bachelor of Business Administration, Major in Business Administration (p. 358)
- Bachelor of Business Administration, Major in Business Administration: Real Estate Concentration (p. 362)
- Bachelor of Business Administration, Major in Business Administration with PGM Concentration (p. 365)
- Bachelor of Business Administration, Major in Entrepreneurship (p. 369)
- Bachelor of Science: Major in Integrated Studies: Land and Urban Property Development Concentration (p. 756)
- Undergraduate Certificate in Business Legal Analysis (p. 374)
- Undergraduate Certificate in Business Negotiation and Communication (p. 375)
- Undergraduate Certificate in Real Estate Analysis (p. 376)
- Minor in Business Education (p. 377)
- Minor in Entrepreneurship (p. 378)
- Minor in General Business Administration (p. 379)
- Minor in Real Estate (p. 380)

Student Organizations

Collegiate Entrepreneurs' Organization

Internships

The department has historically been very successful in offering internships. This program has been expanded to include internship opportunities specifically designed to meet the PGA Professional Golf Management program requirement. Internships for students interested in other business environments are also becoming increasingly available.

Scholarships

Scholarships are available on a competitive basis for Business Administration, and Entrepreneurship majors. Students are encouraged to apply for scholarships using the Scholarship4Kats (https://shsu.academicworks.com/) program on the Financial Aid (https://www.shsu.edu/dept/financial-aid/) website.

The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for department scholarships is December 31. Scholarship recipients are announced in April for the following academic year. The specific scholarships that are available through the department vary from year-to-year and may include:

- Brater Family Business Endowed Scholarship
- CB&A Realtors Scholarship for Entrepreneurial Studies
- Davis-Holden Entrepreneurship Scholarship
- Department of Business Administration and Entrepreneurship Faculty Scholarship
- International Association of Administrative Professional-Houston Chapter/Dr. Rita B, Huff and Dr. Ronald D. Johnson Endowed Scholarship
- Lozano Family Scholarship
- Randy Wallace Business Plan Scholarship

Director/Chair: **Diana Michelle Brown**

Traci Leigh Austin, PHD (tla016@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Nebraska-Lincoln; MED, Sam Houston State University; MA, University of Tulsa; BA, Univ of Nebraska-Lincoln; BA, Univ of Nebraska-Lincoln

Dana Elaine Bible, EDD (deb013@shsu.edu), *Assistant Proffessor of Business Administration*, *Department of Business Admin & Entrep*, EDD, Sam Houston State University; MBA, Sam Houston State University; BBA, Sam Houston State University

Ryan Gunnar Boyle, MS (rgb025@shsu.edu), *Lecturer of Business Administration and Entrepreneurship*, *Department of Business Admin & Entrep*, MS, East Texas A&M; MS, Texas A&M University; BBA, Texas A&M University

Diana Michelle Brown, JD (dxb029@shsu.edu), *Associate Professor and Acting Chair of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BA, Rice University

Lindsay Camille Clark, PHD (lclark@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Oklahoma State University; MA, Midwestern State University; BA, Midwestern State University

William W Durham, JD (gba_wwd@shsu.edu), *Lecturer of Business Administration*, *Department of Business Admin & Entrep*, JD, St Mary's University; BBA, Univ of Texas At Austin

Fred Allen Forgey, PHD (forgey@shsu.edu), *Associate Dean COBA*, *Department of Business Admin & Entrep*, PHD, Texas Tech University; MBA, Univ of North Texas; BBA, Univ of Texas-Arlington

Hope Knight Garner, JD (hlk016@shsu.edu), *Assistant Professor of General Business and Finance*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BBA, Baylor University

Jennifer Marie Graff, JD (jmg208@shsu.edu), *Lecturer of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; LLM, Southern Methodist University; BBA, Univ of Texas At Austin

Robert Lloyd Milner, MBA (rlm088@shsu.edu), *Associate Professor of Practice in Entrepreneurship*, *Department of Business Admin & Entrep*, MBA, University of Phoenix; BS, Park University

Ashton Michelle Mouton, PHD (amm009@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Purdue University; MA, Colorado State University; BA, Sam Houston State University

Arun P Narayanasamy, PHD (apn023@shsu.edu), *Assistant Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Texas-Arlington; MS, Univ of Texas-Arlington; MA, Univ of Texas-Arlington; MS, Univ of Texas-Arlington; BE, Univ of Madras; CERT, Univ of Texas-Arlington

Tommy J Robertson, JD (joey_robertson@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BS, Texas A&M University

Danica Lee Schieber, PHD (dschieber@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Iowa State University; MA, Minnesota State Univ-Mankato; BA, Austin Peay State University

Kyle Anthony Scott, PHD (kas216@shsu.edu), *Assistant Professor of Entrepreneurship*, *Department of Business Admin & Entrep*, PHD, U-Houston Downtown; MBA, Rice University; BA, Univ of Texas At Austin

Ashly Lynn Bender Smith, PHD (als121@shsu.edu), *Associate Professor Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Louisville; MA, New Mexico State University; BA, Texas State Univ-San Marcos

Laura Louise Sullivan, JD (lls003@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; MBA, Sam Houston State University; BBA, Univ of Houston-Main

Christopher Lee Thompson, JD (clt058@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, St Mary's University; BA, Stephen F Austin University

Bachelor of Business Administration, Major in Business Administration

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-general-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Business Administration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
BUAD 3355	Business Law	3
FINC 3310	Financial Institutions and Markets	3
FINC 3330	Financial Spreadsheet Modeling	3
Major: Prescribed Electives		
Advanced ACCT Elective [4]		3
Advanced Business Electives [5]		9
Advanced ECON Elective [6]		3

Advanced MGMT/MKTG Electives [7]	6
Business Elective [8]	3
Electives: General	
General Electives	3
Minor: Not Required [9, 10]	
Total Hours	**120**

1. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4. ACCT 3304 is recommended.
5. Advanced Business Electives include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL, or SCMG prefix (3000- or 4000- level).
6. Select any ECON course (3000- or 4000- level).
7. Select from BUAD 3345 or MGMT or MKTG Advanced Electives (3000- or 4000- level).
8. The following courses may not count here if they are already fulfilling another degree requirement: BUAD 1301, BUAD 2321, and MGIS 1305.
9. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
10. The following minors cannot be paired with this degree program: Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-general-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)[1]		1 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 POLS 2306[5]	3
POLS 2305[5]		3 Business Elective[8]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 BUAD 3335	3

BUAD 3301	3	BUAD 3355	3
FINC 3320	3	FINC 3310	3
MGMT 3310	3	MGIS 3310	3
MKTG 3310	3	General Elective	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
FINC 3330	3	MGMT 4390	3
SCMG 3370	3	Advanced Business Electives[9]	6
Advanced ACCT Electives[9]	3	Advanced ECON Elective[12]	3
Advanced Business Electives [10]	3	Advanced MGMT/MKTG Electives[10]	3
Advanced MGMT/MKTG Electives[11]	3		
	15		**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 The following courses may not count here if they are already fulfilling another degree requirement: BUAD 1301, BUAD 2321, and MGIS 1305.
9 ACCT 3304 is recommended.
10 Advanced Business Electives include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL, or SCMG prefix (3000- or 4000- level).
11 Select from BUAD 3345 or MGMT or MKTG Advanced Electives (3000- or 4000- level).
12 Select any ECON course (3000- or 4000- level).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Business Administration is designed to provide graduates with the following marketable skills:

- Understand risk analysis, identification, and management of business risk.
- Ability to evaluate how people deal with money, time, and resources. Graduates will be able to use money, time, and resources effectively.
- Ability to apply key financial accounting items and construct, in good form, a balance sheet, income statement, and cash flow statement.
- Ability to apply financial ratios, analysis, and financial indicators to provide information useful to managers.

- Effectively design and present a business presentation adapting the presentation to the appropriate audience.
- Understand how the law affects business development, creation, decisions, and operations.

Bachelor of Business Administration, Major in Business Administration: Real Estate Concentration

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Code	Title	Hours
Bachelor of Business Administration, Major in General Business Administration: Real Estate Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
BUAD 3355	Business Law	3
FINC 3330	Financial Spreadsheet Modeling	3
Electives: General		
General Electives		3
Concentration: Real Estate		
ACCT 3304	Managerial Accounting	3
BUAD 3345	Entrepreneurship I - Startup	3

ECON 3373	Urban And Regional Economics	3
MKTG 3328	Professional Selling	3
or BUAD 3375	Entrepreneurial Sales	
REAL 3310	Real Estate Principles	3
REAL 3365	Real Estate Law	3
REAL 4350	Real Estate Debt	3
REAL 4351	Real Estate Equity	3
REAL 4352	Real Estate Market and Development Feasibility Analysis	3
Minor: Not Required [4, 5]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

5 The following minors cannot be paired with this degree program: Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)[1]	1	Component Area V (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
MATH 1324[4]	3	MGIS 1305 or CSTE 1330	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)[6]	3
ACCT 2301	3	ACCT 2302	3
BANA 2372	3	ECON 2302	3
ECON 2301	3	POLS 2306[5]	3
POLS 2305[5]	3	General Elective	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3304	3
FINC 3320	3	BUAD 3301	3
MGMT 3310	3	MKTG 3328 or BUAD 3375	3
MKTG 3310	3	REAL 3365	3
REAL 3310	3	REAL 4350	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
BUAD 3335		3 BUAD 3345	3
BUAD 3355		3 ECON 3373	3
MGIS 3310		3 FINC 3330	3
REAL 4351		3 MGMT 4390	3
REAL 4352		3 SCMG 3370	3
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Business Administration: Real Estate Concentration is designed to provide graduates with the following marketable skills:

- Market research skills applied to real estate.
- Financial analysis skills applied to real estate.
- Regulatory and/or economic analysis skills applied to real estate.
- Development project analysis skills applied to real estate.
- Oral and written communication skills applied to real estate.

BBA, Major in Business Administration with PGA Golf Management Concentration

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-general-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in General Business Administration with PGA Golf Management Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
BUAD 1211	PGA/PGM Professional Development Seminar (A, B, C, and D) [4]	8
BUAD 2189	Pga/Pgm Internship (taken twice)	2
BUAD 3189	Pga/Pgm Internship III	1
BUAD 3269	Advanced PGA/PGM Professional Development Seminar (A, B, and C) [5]	6

BUAD 3345	Entrepreneurship I - Startup	3
BUAD 3355	Business Law	3
BUAD 4289	Pga/Pgm Internship IV [6]	2
FINC 3310	Financial Institutions and Markets	3
MKTG 3335	Retailing	3
Major: Prescribed Electives		
Advanced ACCT Electives [7]		3
Advanced ECON Electives [8]		3
Minor: Not Required [9, 10]		
Total Hours		**121**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 BUAD 1211 PGA/PGM Professional Development Lab (A, B, C, and D).

5 BUAD 3269 Advanced PGA/PGM Professional Development (A, B, and C).

6 BUAD 4289 (Continuation of 7-month internship). The PGA's Playing Ability Test must be passed prior to graduation with the PGM Concentration.

7 ACCT 3304 is recommended.

8 Select any ECON course (3000- or 4000- level).

9 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

10 The following minors cannot be paired with this degree program: Minor in Entrepreneurship, Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The PGA's Playing Ability Test must be passed prior to graduation with the PGM Concentration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-general-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area IX (p. 91)[1]	1	Component Area III (p. 89)	4	BUAD 2189	1
BUAD 1211 (A: PGA Orientation)[2]	2	Component Area V (p. 90)	3		
ENGL 1301[3]	3	BUAD 1211 (B: Professional Development)[6]	2		
HSTY 1301[4]	3	ENGL 1302[3]	3		
MATH 1324[5]	3	HSTY 1302[4]	3		
MGIS 1305 or CSTE 1330	3				
	15		**15**		**1**

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)[9]	3	BUAD 2189 (Level 1 Complete)	1

ACCT 2301	3	ACCT 2302	3		
BANA 2372	3	BUAD 1211 (D: Professional Development)[10]	2		
BUAD 1211 (C: Professional Development)[7]	2	ECON 2302[11]	3		
ECON 2301	3	POLS 2306[8]	3		
POLS 2305[8]	3				
	17		**14**		**1**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area III (p. 89)	4	BUAD 3269 (B: Professional Development)[13]	2	BUAD 3189 (Level 2 Complete)	1
BUAD 3269 (A: Professional Development)[12]	2	BUAD 3335	3		
BUAD 3301	3	BUAD 3345	3		
MGMT 3310	3	MKTG 3335	3		
MKTG 3310	3	Advanced ACCT Electives[14]	3		
	15		**14**		**1**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
BANA 3363	3	FINC 3310	3	BUAD 4289 (Level 3 Complete)	2
BUAD 3269 (C: Professional Development)[15]	2	MGMT 4390	3		
BUAD 3355	3	SCMG 3370	3		
FINC 3320	3	Advanced ECON Electives[16]	3		
MGIS 3310	3				
	14		**12**		**2**

Fifth Year

Fall	Hours
BUAD 4289[17, 18]	2
	0

Total Hours: 121

1. The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2. BUAD 1211 PGA/PGM Professional Development Lab (A: PGA Orientation).
3. Satisfies requirement for Core Curriculum Component Area I (Communication).
4. Satisfies requirement for Core Curriculum Component Area VI (U.S. History).
5. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
6. BUAD 1211 PGA/PGM Professional Development Lab (B: Professional Development).
7. BUAD 1211 PGA/PGM Professional Development Lab (C: Professional Development).
8. Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).
9. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
10. BUAD 1211 PGA/PGM Professional Development Lab (D: Professional Development).
11. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
12. BUAD 3269 Advanced PGA/PGM Professional Development (A: Professional Development).
13. BUAD 3269 Advanced PGA/PGM Professional Development (B: Professional Development).

[14] ACCT 3304 is recommended.
[15] BUAD 3269 Advanced PGA/PGM Professional Development (C: Professional Development).
[16] Select any ECON course (3000- or 4000- level course).
[17] BUAD 4289 (http://catalog.shsu.edu/search/?P=BUAD%204289) (Continuation of 7-month internship).
[18] The PGA's Playing Ability Test must be passed prior to graduation with the PGM Concentration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in General Business Administration.

The PGA's Playing Ability Test must be passed prior to graduation with the PGM Concentration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA, Major in Business Administration with PGA Golf Management Concentration is designed to provide graduates with the following marketable skills:

- PGA Golf Management graduates demonstrate the ability to play golf at a high level through passing the PGA of America's Playing Ability Test.
- PGA Golf Management graduates have an excellent understanding of the requirements necessary for planning, running, and managing a golf facility.
- PGA Golf Management graduates possess the essential tools to be an effective golf instructor, including knowledge as to how students learn, how to build effective relationships with students, how to structure effective golf lessons, to recognize cause and effect in ball flight, and to understand golf club performance.

Bachelor of Business Administration, Major in Entrepreneurship

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-entrepreneurship/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Entrepreneurship		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ACCT 3304	Managerial Accounting	3
BUAD 3345	Entrepreneurship I - Startup	3
BUAD 3355	Business Law	3
BUAD 4345	Entrepreneurship II - Growth	3
BUAD 4348	Entrepreneurship III - Cases	3
FINC 4315	Entrepreneurial and Small Firm Finance	3
MGMT 3348	Small Business Management	3

Major: Prescribed Electives	
Business Electives [4]	9
Advanced Business Elective [5]	3
Electives: General	
General Elective	3
Minor: Not Required [6, 7]	
Total Hours	**120**

1. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4. Select three courses from the Business Electives course listing below.
5. Advanced Business Electives include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL, or SCMG prefix (3000- or 4000- level).
6. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
7. The following minors cannot be paired with this degree program: Minor in Entrepreneurship, Minor in General Business Administration.

Code	Title	Hours
Business Electives [4]		
Select three of the following:		9
ACCT 3313	Intermediate Accounting I	
ACCT 3314	Intermediate Accounting II	
ACCT 3324	Accounting Information Systems	
ACCT 3347	Cost Accounting	
ACCT 3353	Federal Taxation Concepts	
BUAD 3360	Human Resources Management Law	
BUAD 4325	Negotiation in Business	
FINC 3310	Financial Institutions and Markets	
FINC 3330	Financial Spreadsheet Modeling	
FINC 4345	Investments	
FINC 4390	Managerial Finance	
MGIS 3315	Programming for Business	
MGIS 3320	E-Commerce Implementation	
MGIS 3330	Business Database Management	
MGMT 3325	New Product Commercialization	
MGMT 3327	Management of Innovation and Technology	
MGMT 3330	Human Resource Management	
MGMT 4325	Family Business Management	
MGMT 4327	Corporate Entrepreneurship	
MGMT 4335	Management and Labor Relations	
MGMT 4345	Social Responsibility of Management	
MGMT 4355	Human Resource Development	
MKTG 3320	Consumer Behavior	
MKTG 3335	Retailing	
MKTG 3360	Supply Chain Management	
MKTG 3370	Integrated Marketing Communication and Promotional Strategy	
MKTG 4330	Sales Management	
MKTG 4350	Marketing Research	
REAL 3365	Real Estate Law	

SCMG 3372	Supply Chain Management	
Total Hours		**9**

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Entrepreneurship, Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-entrepreneurship/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)[1]	1	Component Area V (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
MATH 1324[4]	3	MGIS 1305	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)[6]	3
ACCT 2301	3	ACCT 2302	3
ECON 2301	3	BANA 2372	3
POLS 2305[5]	3	ECON 2302[7]	3
General Electives	3	POLS 2306[5]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3304	3
BUAD 3301	3	BUAD 3335	3
FINC 3320	3	BUAD 3345	3
MGMT 3310	3	BUAD 3355	3
MKTG 3310	3	MGIS 3310	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
BUAD 4345	3	BUAD 4348	3
FINC 4315	3	MGMT 3348	3
SCMG 3370	3	MGMT 4390	3
Business Electives[8]	6	Advanced Business Elective[9]	3
		Business Elective[8]	3
	15		**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

[2] Satisfies Core Curriculum requirement for Component Area I (Communication).
[3] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
[4] MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
[5] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
[6] BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
[7] ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
[8] Select three courses from the Business Electives course listing below.
[9] Advanced Business Electives include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL, or SCMG prefix (3000- or 4000- level).

Code	Title	Hours
Business Electives [8]		
Select three from the following:		9
ACCT 3313	Intermediate Accounting I	
ACCT 3314	Intermediate Accounting II	
ACCT 3324	Accounting Information Systems	
ACCT 3347	Cost Accounting	
ACCT 3353	Federal Taxation Concepts	
BUAD 3360	Human Resources Management Law	
BUAD 4325	Negotiation in Business	
FINC 3310	Financial Institutions and Markets	
FINC 3330	Financial Spreadsheet Modeling	
FINC 4345	Investments	
FINC 4390	Managerial Finance	
MGIS 3315	Programming for Business	
MGIS 3320	E-Commerce Implementation	
MGIS 3330	Business Database Management	
MGMT 3325	New Product Commercialization	
MGMT 3327	Management of Innovation and Technology	
MGMT 3330	Human Resource Management	
MGMT 4325	Family Business Management	
MGMT 4327	Corporate Entrepreneurship	
MGMT 4335	Management and Labor Relations	
MGMT 4345	Social Responsibility of Management	
MGMT 4355	Human Resource Development	
MKTG 3320	Consumer Behavior	
MKTG 3335	Retailing	
MKTG 3360	Supply Chain Management	
MKTG 3370	Integrated Marketing Communication and Promotional Strategy	
MKTG 4330	Sales Management	
MKTG 4350	Marketing Research	
REAL 3365	Real Estate Law	
SCMG 3372	Supply Chain Management	
Total Hours		**9**

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Entrepreneurship, Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Entrepreneurship is designed to provide graduates with the following marketable skills:

- Ability to assess and provide evidence that business ideas are viable, desirable, and feasible to gain buy-in from investors and stakeholders.
- Apply entrepreneurial methods and tools to assess and refine new business ideas.
- Design value propositions and business models that support growth.
- Effectively and confidently communicate and pitch business ideas.

Undergraduate Certificate in Business Legal Analysis

The Undergraduate Certificate in Business Legal Analysis provides an educational opportunity that is narrower in scope, and shorter in duration, than a degree program. This certificate will help students to acquire the skills needed to understand how the law impacts businesses and when to seek legal help to navigate complex issues.

Code	Title	Hours
Undergraduate Certificate in Business Legal Analysis		
Required Courses		
BUAD 3355	Business Law	3
BUAD 3380	Ethics for Business Executives	3
Prescribed Electives		
Select two courses from the following		6
BUAD 3301	Business Legal Environment	
BUAD 3338	Entrepreneurial Law	
BUAD 3360	Human Resources Management Law	
BUAD 3370	Cyberlaw & E-Commerce Regulation	
BUAD 4310	Securities Regulation	
BUAD 4340	International Business Law	
REAL 3365	Real Estate Law	
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Business Legal Analysis is designed to provide graduates with the following marketable skills:

- Recognize when and how laws affect professional decision-making.
- Protect businesses from legal risk and ensure compliance with local, state and federal laws.
- Identify the public policy implications of passed and proposed legislation.
- Identify when complex legal issues would benefit from further analysis by an attorney and communicate effectively with attorneys in such situations.
- Identify ethical dilemmas in the business context and use ethical reasoning in decision-making.

Undergraduate Certificate in Business Negotiation and Communication

The Undergraduate Certificate in Business Negotiation and Communication provides an educational opportunity that is narrower in scope, and shorter in duration, than a degree program. The certificate is ideal for students to acquire the skills needed to gain support for ideas, influence the outcome of negotiations, and successfully implement solutions in today's business world.

Code	Title	Hours
Undergraduate Certificate in Business Negotiation and Communication		
Required Courses		
BUAD 4321	Advanced Business Project Design and Presentation [1]	3
BUAD 4325	Negotiation in Business	3
Prescribed Electives		
Select two courses from the following:		6
BUAD 3336	Successful Workplace Relations	
BUAD 3337	Artificial Intelligence for Business Communication [2]	
BUAD 3340	Visualized Messaging in the Workplace [3]	
BUAD 3380	Ethics for Business Executives	
Total Hours		**12**

1 Prerequisite: BUAD 2321 or 60 credit hours.
2 Prerequisite: BUAD 3335.
3 Prerequisite: MGIS 1305 or CSTE 1330.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Business Negotiation and Communication is designed to provide graduates with the following marketable skills:

- Negotiate to obtain favorable agreements, garner support, close deals, and implement preferred solutions.
- Demonstrate verbal and non-verbal communication.
- Develop communication skills to foster trust and rapport with counterparts to facilitate ongoing collaboration and future business opportunities.
- Employ clear and concise expression.

Undergraduate Certificate in Real Estate Analysis

The Undergraduate Certificate in Real Estate Analysis provides an educational opportunity that is narrower in scope, and shorter in duration, than a degree program. It is ideal for those transitioning from one sector of real estate into real estate project feasibility analysis or those in the process of satisfying education requirements for various professional real estate designations.

Code	Title	Hours
Undergraduate Certificate in Real Estate Analysis		
Required Courses		
REAL 3310	Real Estate Principles	3
REAL 4350	Real Estate Debt	3
REAL 4351	Real Estate Equity	3
REAL 4352	Real Estate Market and Development Feasibility Analysis	3
Total Hours		**12**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Real Estate Analysis is designed to provide graduates with the following marketable skills:

- Market research skills applied to commercial real estate.
- Financial analysis skills applied to commercial real estate.
- Regulatory and/or economic analysis skills applied to commercial real estate.
- Development project analysis skills applied to commercial real estate.
- Oral and written communication skills applied to commercial real estate.

Minor in Business Education

A Minor in Business Education (24 hours) is available for all non-business bachelor's degree programs that permit a minor. This minor is designed to meet the requirements for a teaching certification in Texas and specifically for someone wishing to use business as a second teaching field in Texas high schools. The Minor in Business Education requires the following courses with a minimum grade point average of 2.0. for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Business Education		
Required Courses		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BUAD 3335	Business Communication	3
BUAD 3355	Business Law	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics	3
FINC 1307	Personal Finance	3
MGMT 3310	Principles Of Management	3
Total Hours		**24**

Minor in Entrepreneurship

A Minor in Entrepreneurship (18 hours) is available for all bachelor's degree programs that permit a minor. The Minor in Entrepreneurship requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Entrepreneurship		
Required Courses		
BUAD 3345	Entrepreneurship I - Startup	3
BUAD 3355	Business Law	3
BUAD 4345	Entrepreneurship II - Growth [1]	3
or BUAD 4348	Entrepreneurship III - Cases	
FINC 3310	Financial Institutions and Markets	3
Select two of the following:		6
BUAD 4345	Entrepreneurship II - Growth [1]	
or BUAD 4348	Entrepreneurship III - Cases	
FINC 4315	Entrepreneurial and Small Firm Finance	
MGMT 3348	Small Business Management	
MKTG 3310	Principles Of Marketing	
MGMT 4325	Family Business Management	
MGMT 4327	Corporate Entrepreneurship	
Total Hours		**18**

[1] Students may select both BUAD 4345 and BUAD 4348 among the 18 hours of courses required for the minor.

Minor in General Business Administration

A Minor in General Business Administration (21 hours) is available to all non-business bachelor's degree programs that permit a minor. The Minor in General Business Administration requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in General Business Administration		
Required Courses		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
Select one of the following:		3
ECON 2300	Introduction To Economics	
ECON 2301	Principles Of Macroeconomics	
ECON 2302	Principles Of Microeconomics	
FINC 3310	Financial Institutions and Markets	3
or FINC 3320	Business Finance	
MGMT 3310	Principles Of Management	3
MKTG 3310	Principles Of Marketing	3
Business elective at any level		3
Total Hours		**21**

Furthermore, degree candidates for a Minor in General Business Administration must achieve a minimum 2.0 grade point average for all hours attempted in business courses, including in residence and transfer hours whether required for the General Business Administration minor or not.

Minor in Real Estate

A Minor in Real Estate (18 hours) is available to all bachelor's degree programs that permit a minor. The Minor in Real Estate requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both residence and transfer hours.

Code	Title	Hours
Minor in Real Estate		
Required Courses		
ECON 3373	Urban And Regional Economics [1]	3
REAL 3310	Real Estate Principles	3
REAL 3365	Real Estate Law	3
REAL 4350	Real Estate Debt	3
REAL 4351	Real Estate Equity	3
REAL 4352	Real Estate Market and Development Feasibility Analysis	3
Total Hours		**18**

[1] The prerequisite for ECON 3373 is 42 completed hours and ECON 2300 or ECON 2301 or ECON 2302.

Department of Economics & International Business

Chair: Mary Funck, Ph.D. (mcf012@shsu.edu); (936) 294-1277

Website: Department of Economics & International Business (http://www.shsu.edu/academics/economics-and-international-business/)

Vision

To develop outstanding Economics and International Business programs with faculty that is recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of Economics and International Business is to support the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The Department will provide curricula that promote critical thinking skills and enhance decision making abilities, which help students become productive and informed citizens. Faculty will engage in research to create and disseminate new knowledge, develop quality-teaching skills, maintain high professional standards, and actively serve the University Community.

Academic Programs

The Economics program is intended for students seeking a logical, ordered way of looking at business problems. The principles, approaches, and conclusions derived from the study of economics form the basis for developing sound policies in business, government, and personal life decisions.

The International Business program is designed for students preparing for positions with business, government, or international agencies dealing with international trade and foreign investments. As a result of the growing importance of international trade in the world economy, domestic and multinational corporations face a growing need for employees with specialized training in matters relating to international trade.

Career Opportunities

The study of economics is an effective way to prepare for several types of careers, including:

- Economic Consulting
- Legal Profession
- Government Sector
- Market Research
- Corporations and Financial Institutions
- Graduate education in law, business, public administration, urban studies, and economics.

The study of international business is an effective way to prepare for several types of careers, including:

- International Corporations
- Federal and International Agencies, both public and private
- Graduate education in law, international business, public administration, and economics.

Suggested Minors

- Accounting
- A Foreign Language
- Business Data Analytics
- Banking
- Economics (for International Business majors)
- Finance
- Management
- Marketing
- Math
- Political Science

The Department of Economics and International Business offers a Minor in Economics (p. 391) and a Minor in International Business (p. 392) for students pursuing a major that requires or encourages a minor.

- Bachelor of Business Administration, Major in Economics (p. 384)
- Bachelor of Business Administration, Major in International Business (p. 387)
- Minor in Economics (p. 391)
- Minor in International Business (p. 392)

Student Organizations

- Economics and International Business Club
- Omicron Delta Epsilon

Study Abroad

Students may earn academic credit toward their Economics and/or International Business degree by participating in one of the several faculty-led study abroad programs held each summer. For additional information, contact the Department Chair, the SHSU Office of International Programs, or visit the webpage: Study Abroad Information (http://www.shsu.edu/academics/economics-and-international-business/study-abroad-information.html). Current study abroad programs include:

- Tokyo, Japan
- Barcelona, Spain

Internships

A student may earn a maximum of six hours in approved, supervised educational work experience in internships. Internship applications are available in the Departmental office. It is the responsibility of the student to identify the internship opportunity. In order to receive academic credit, a student must meet the eligibility conditions, obtain prior approval from the Department Chair, and meet the guidelines established by the College of Business Administration for monitoring the quality of the learning experience.

Scholarships

Scholarships are available on a competitive basis for economics and international business majors. Students are encouraged to apply for scholarships using Scholarships4Kats (https://shsu.academicworks.com/) on the Financial Aid (http://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats (https://shsu.academicworks.com/) program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for Department of Economics and International Business scholarships is December 31. Department of Economics and International Business scholarship recipients are announced in April for the following academic year. The specific scholarships that are available through the department vary from year to year and may include:

- Armstrong Foundation Endowed Scholarship in Economics
- Armstrong Foundation Endowed Scholarship in International Business
- Assam Scholarship in Monetary Economics
- Faculty Scholarship in Economics
- Faculty Scholarship in International Business
- William B. Green Scholarship in International Business
- Jadrian Wooten Endowed Scholarship in Economics

Milo D. Berg, PHD (eco_mdb@shsu.edu), *Associate Professor of Business Analysis*, *Department of Economics & Intl Business*, PHD, Texas A&M University; BSB, Univ of Minnesota-Twin Cities

Cosmas B Domonaamwin Dery, PHD (cdery@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Calgary; MA, Univ of Lethbridge; BA, University of Ghana

Mark W. Frank, PHD (eco_mwf@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; BS, Texas A&M University

Fidel Gonzalez, PHD (fxg001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin

Darren P Grant, PHD (dgrant@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Florida State University; BS, Florida State University

Natalie D Hegwood, PHD (eco_ndh@shsu.edu), *Adjunct Faculty and Assistant Dean, College of Business Administration*, *Department of Economics & Intl Business*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BBA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Kevin Samuel Shaw Henning, PHD (henning@shsu.edu), *Clinical Associate Professor of Business Analysis*, *Department of Economics & Intl Business*, PHD, Texas Tech University; MS, Texas Tech University; BBA, University of The Southwest

Youn Oh Kim, PHD (younoh@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Ewha Womans Univ.

Hiranya K Nath, PHD (eco_hkn@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Southern Methodist University; MA, Southern Methodist University; MPHIL, Jawaharlal Nehru University; MA, University of Delhi; BA, University of Delhi

Vlad Marius Radoias, PHD (radoias@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Central Michigan Univ; BA, Bucharest Acad of Eco Studies

Christian Werner Raschke, PHD (raschke@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, LSU & A&M College; MS, LSU & A&M College; BS, Southeast Missouri State Univ

Raisa Tasnim Sara, PHD (rts021@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Texas A&M University; MSC, Univ of London - School Econ; BSC, Queen Mary Univ of London

Nazanin Sedaghatkish, PHD (nazanins@shsu.edu), *Assistant Professor of Economics and International Business*, *Department of Economics & Intl Business*, PHD, Virginia Polytechnic&State U; PHD, Virginia Polytechnic&State U; MSC, Sharif Univ of Technology; BS, Shahid Beheshti University

Sharmistha Self, PHD (sxs257@shsu.edu), *Professor of Economics and Dean of the College of Business Administration*, *Department of Economics & Intl Business*, PHD, Southern Illinois U-Carbondale; MA, Jadavpur University; BED, Annamalai University; BA, Jadavpur University

Markland Howard Tuttle, PHD (mht001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Tennessee-Knoxville; MBA, Sam Houston State University; BBA, Sam Houston State University

Bachelor of Business Administration, Major In Economics

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required Courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-economics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major In Economics		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ECON 3357	Intermediate Microeconomics	3
ECON 3372	Intermediate Macroeconomics	3
ECON 3341	Comparative Economics Systems	3
or ECON 3344	Contemporary International Issues in Economics	
or ECON 4340	International Economics	
or ECON 4348	Economic Development	
or ECON 4360	International Field Studies in Economics	

ECON 4362	Econometrics for Business	3
or ECON 4365	Introduction to Business Forecasting and Economics	
or BANA 4365	Introduction To Business Forecasting & Economics	
Major: Prescribed Electives		
BANA and ECON Advanced Electives [4]		15
ACCT, BANA, or ECON Advanced Elective [5]		3
Electives: General		
General Electives		6
Minor: Not Required [6, 7]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 Select five courses (15 SCH) from the BANA and ECON Advanced Electives course list below.

5 Select any ACCT, BANA, or ECON Advanced Elective (3000- or 4000- level) course.

6 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

7 All minors, except the Minor in General Business Administration, may be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who want to pursue graduate studies in economics are encouraged to take additional courses in mathematics and statistics. Suggested courses include: MATH 1420, MATH 1430, MATH 2440, MATH 3377, or STAT 4371. Please, visit with the department chair for additional guidance.

Code	Title	Hours
BANA and ECON Advanced Electives [4]		
Select five from the following:		15
BANA 4373	Advanced Business Analytics for Economics and Business	
ECON 3351	Labor Economics	
ECON 3352	Energy and Environmental Economics	
ECON 3360	Behavioral Economics	
ECON 3370	Economics of Business and Government	
ECON 3373	Urban And Regional Economics	
ECON 3374	Economics of Public Finance and Public Policy	
ECON 4085	Special Topic	
ECON 4350	Health Economics and Finances	
ECON 4353	Economics Of Sports	
ECON 4357	Managerial Economics	
ECON 4367	Data Science for Business and Economics	
ECON 4373	Monetary Economics	

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-economics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)[1]	1	Component Area V (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
MATH 1324[4]	3	MGIS 1305 or CSTE 1330	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)[6]	3
ACCT 2301	3	ACCT 2302	3
ECON 2301	3	BANA 2372	3
General Elective	3	ECON 2302[7]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	BUAD 3301	3
ECON 3357	3	BUAD 3335	3
FINC 3320	3	ECON 3341, 3344, 4340, 4348, or 4360 (Select one)	3
MGMT 3310	3	ECON 3372	3
MKTG 3310	3	MGIS 3310	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
BANA and ECON Advanced Electives[8]	12	ACCT, BANA, or ECON Advanced Electives[9]	3
SCMG 3370	3	BANA and ECON Advanced Electives [8]	3
		ECON 4362, 4365, or BANA 4365	3
		General Electives	3
		MGMT 4390	3
	15		**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).

7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

8 Select five courses (15 SCH) from the BANA and ECON Advanced Electives course list below.

9 Select any ACCT, BANA, or ECON Advanced Elective (3000- or 4000- level) course.

Code	Title	Hours
BANA and ECON Advanced Electives [8]		
Select five from the following:		15
BANA 4373	Advanced Business Analytics for Economics and Business	
ECON 3351	Labor Economics	
ECON 3352	Energy and Environmental Economics	
ECON 3360	Behavioral Economics	

ECON 3370	Economics of Business and Government
ECON 3373	Urban And Regional Economics
ECON 3374	Economics of Public Finance and Public Policy
ECON 4085	Special Topic
ECON 4350	Health Economics and Finances
ECON 4353	Economics Of Sports
ECON 4357	Managerial Economics
ECON 4367	Data Science for Business and Economics
ECON 4373	Monetary Economics

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who want to pursue graduate studies in economics are encouraged to take additional courses in mathematics and statistics. Suggested courses include: MATH 1420, MATH 1430, MATH 2440, MATH 3377, STAT 3379, or STAT 4371. Please, visit with the department chair for additional guidance.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors, except the Minor in General Business Administration, may be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Economics is designed to provide graduates with the following marketable skills:

- Critical thinking.
- Data analysis.
- Supply and demand analysis.
- Understanding of current and past economic performance.
- Quantitative reasoning.

Bachelor of Business Administration, Major in International Business

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-international-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in International Business		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3

Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
BUAD 4335	Intercultural Business Communication [4]	3
BUAD 4340	International Business Law	3
ECON 3340	Economics and Business in the Global Economy	3
or ECON 3341	Comparative Economics Systems	
or ECON 3344	Contemporary International Issues in Economics	
or ECON 4348	Economic Development	
ECON 4340	International Economics	3
FINC 4340	International Finance [5]	3
MGMT 4340	International Management [6]	3
MKTG 4340	International Marketing	3
SCMG 3376	Global Supply Chain Logistics	3
Major: Prescribed Electives		
Advanced Business Electives [7]		6
World Studies Elective [8]		3
Electives: General		
General Elective		3
Minor: Not Required [9, 10]		
Total Hours		**120**

1. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4. Or select a 3000- or 4000- level foreign language course OR a COBA Study Abroad course to fulfill this requirement.

[5] FINC 4340 is typically offered only in the fall semester. See an academic advisor for further information.
[6] MGMT 4340 is typically offered only in the fall semester. See an academic advisor for further information.
[7] Advanced Business Electives include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL, or SCMG prefix (3000- or 4000- level).
[8] See the course listing below for the World Studies Elective.
[9] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
[10] A minor in a supporting business field (not General Business Administration) or a foreign language is strongly recommended. A minor in most supporting business fields can be accomplished by using the available elective hours. Employment opportunities in International Business are likely to be enhanced with foreign language skills. Students who have high school credits in a foreign language or who have otherwise developed a foreign language proficiency are encouraged to participate in the College Level Examination Program (CLEP). Acceptable scores on the CLEP examinations will allow students to earn up to 14 hours of foreign language credits in French, German, or Spanish.

Code	Title	Hours
World Studies Electives [8]		
Select one from the following OR any 1000-2000 level course offered in the Department of World Languages and Cultures:		3
CRIJ 3361	Comparative Criminal Justice Systems	
GEOG 2355	World Regional Geography: Europe, Asia, and Australia	
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia	
GEOG 3350	Cultural Geography	
GEOG 4351	Economic Geography	
HSTY 3312	Early Christianities	
HSTY 3316	Modern Middle East	
HSTY 3321	Modern Asian History	
HSTY 3335	Europe & the World 1618-1789	
HSTY 3338	Britain to 1714	
HSTY 3340	British Empire	
HSTY 3351	Modern Mexico	
HSTY 3353	Modern Latin America	
HSTY 3369	Boomers to Zoomers	
HSTY 3397	Urban/Suburban History	
POLS 3386	International Political Economy	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor in a supporting business field (not General Business Administration) or a foreign language is strongly recommended. A minor in most supporting business fields can be accomplished by using the available elective hours. Employment opportunities in International Business are likely to be enhanced with foreign language skills. Students who have high school credits in a foreign language or who have otherwise developed a foreign language proficiency are encouraged to participate in the College Level Examination Program (CLEP). Acceptable scores on the CLEP examinations will allow students to earn up to 14 hours of foreign language credits in French, German, or Spanish.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-international-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)[1]	1	Component Area V (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3

MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
ECON 2301		3 BANA 2372	3
POLS 2305[5]		3 ECON 2302[7]	3
General Electives		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 BUAD 3335	3
BUAD 3301		3 ECON 3340, 3341, 3344, or 4348	3
FINC 3320		3 MGIS 3310	3
MGMT 3310		3 MKTG 3310	3
World Studies Elective[8]		3 Advanced Business Elective[9]	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
ECON 4340		3 BUAD 4335[12]	3
FINC 4340[10]		3 BUAD 4340	3
MGMT 4340[11]		3 MGMT 4390	3
SCMG 3370		3 MKTG 4340	3
Advanced Business Elective[9]		3 SCMG 3376	3
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies requirement for Core Curriculum Component Area I (Communication).
3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).
6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 See the course listing below for the World Studies Elective.
9 Advanced Business Electives include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL or SCMG prefix (3000- or 4000- level).
10 FINC 4340 is typically offered only in the fall semester. See an academic advisor for further information.
11 MGMT 4340 is typically offered only in the fall semester. See an academic advisor for further information.
12 Or select a 3000- or 4000- level foreign language course OR a COBA Study Abroad course to fulfill this requirement.

Code	Title	Hours
World Studies Electives [8]		
Select one from the following OR any 1000-2000 level course offered in the Department of World Languages and Cultures:		3
CRIJ 3361	Comparative Criminal Justice Systems	
GEOG 2355	World Regional Geography: Europe, Asia, and Australia	
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia	
GEOG 3350	Cultural Geography	
GEOG 4351	Economic Geography	
HSTY 3312	Early Christianities	

HSTY 3316	Modern Middle East
HSTY 3321	Modern Asian History
HSTY 3335	Europe & the World 1618-1789
HSTY 3338	Britain to 1714
HSTY 3340	British Empire
HSTY 3351	Modern Mexico
HSTY 3353	Modern Latin America
HSTY 3369	Boomers to Zoomers
HSTY 3397	Urban/Suburban History
POLS 3386	International Political Economy

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

A minor in a supporting business field (not General Business Administration) or a foreign language is strongly recommended. A minor in most supporting business fields can be accomplished by using the available elective hours. Employment opportunities in International Business are likely to be enhanced with foreign language skills. Students who have high school credits in a foreign language or who have otherwise developed a foreign language proficiency are encouraged to participate in the College Level Examination Program (CLEP). Acceptable scores on the CLEP examinations will allow students to earn up to 14 hours of foreign language credits in French, German, or Spanish.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in International Business is designed to provide graduates with the following marketable skills:

- Analysis and decision making.
- Data analysis.
- Understanding of international markets.
- Understanding of global issues.
- Quantitative reasoning.

Minor in Economics

A Minor in Economics (18 hours) is available for all bachelor's degree programs that permit a minor. The Minor in Economics requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Economics		
Required Courses		
ECON 2301	Principles Of Macroeconomics	3
or ECON 2300	Introduction To Economics	
ECON 2302	Principles Of Microeconomics	3
ECON 3000-4000 Electives		9
ECON 4000 Elective		3
Total Hours		**18**

Furthermore, degree candidates for a Minor in Economics must achieve a minimum 2.0 grade point average for all hours attempted in economics courses, residence, and transfer hours combined.

Minor in International Business

A Minor in International Business (18 hours) is available for all bachelor's degree programs that permit a minor. The Minor in International Business requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in International Business		
Required Courses		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
ECON 2300	Introduction To Economics	3
or ECON 2302	Principles Of Microeconomics	
ECON 4340	International Economics	3
Select two of the following:		6
BUAD 4340	International Business Law	
FINC 3320	Business Finance	
FINC 4340	International Finance	
MGMT 4340	International Management [1]	
MKTG 4340	International Marketing [2]	
Total Hours		**18**

1 Requires MGMT 3310.
2 Requires MKTG 3310.

Furthermore, degree candidates for a Minor in International Business must achieve a minimum 2.0 grade point average for all hours attempted in business courses, including in residence and transfer hours whether required for the International Business minor or not.

Department of Finance and Banking

Chair: Dr. Mary Funck (mcf012@shsu.edu); (936) 294-1277
Website: Department of Finance and Banking (https://www.shsu.edu/academics/finance-and-banking/)

Vision

To deliver outstanding Finance and Banking programs with faculty who are recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of Finance and Banking is to assist in fulfilling the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The academic foundation leading to a Bachelor of Business Administration degree in Finance or in Banking and Financial Institutions is designed to arouse intellectual curiosity, develop analytical reason, and provide historical and current information relative to the global environment.

Academic Programs

The **Finance** degree program provides students with the knowledge of the problems and opportunities that confront entities in the field of finance. The **Banking and Financial Institutions** degree program prepares students for officer-level positions in banks, regulatory agencies, and other financial institutions.

Highlights

The Department of Finance and Banking, through the Smith-Hutson Chair of Banking, provides the leadership for the Executive MBA in Banking and Financial Institutions (https://www.shsu.edu/academics/banking/executive-mba-program/) program.

Suggested Minors

Both the Banking and the Finance degree majors have limited electives available; therefore, no minor is required. Students may elect to declare a minor; however, the additional courses will add to the length of their programs.

Career Opportunities

The Banking and Financial Institutions and Finance degree programs are designed to prepare students for careers in business, government, or not-for-profit entities.

- `Bachelor of Business Administration, Major in Banking and Financial Institutions (p. 395)`
- Bachelor of Business Administration, Major in Banking and Financial Institutions: Concentration in Commercial Real Estate (p. 399) (as of Spring 2026)
- `Bachelor of Business Administration, Major in Finance (p. 403)`
- Bachelor of Business Administration, Major in Finance: Concentration in Financial Management (p. 408)
- Bachelor of Business Administration, Major in Finance: Concentration in Investments (p. 412)
- `Minor in Banking (p. 416)`
- `Minor in Finance (p. 417)`

Student Organizations

- Banking and Finance Club
- Beta Alpha Psi
- The Investment Club

Internships

The department has historically been very successful in offering internships in the financial institutions area. Internships for students interested in other business environments are also becoming increasingly available.

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarship4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) program on the Financial Aid (http://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The priority deadline to apply for scholarships is November 1 and the final deadline is February 1. Scholarship recipients are announced in April for the following academic year. The specific scholarships that are available through the department vary from year-to- year and may include:

- Bala and Santhi Maniam Finance Scholarship
- Charles W. Jones III Endowed Scholarship
- Citizens National Bank Endowed Scholarship
- Department of Finance and Banking Faculty Scholarship
- Financial Executives International (FEI) Scholarship
- Frank and Mary McAdams Payne Banking Scholarship
- James B. and Elsie M. Bexley Scholarship
- John Klein/Amegy Bank Scholarships
- Laurence L. Corley Scholarship
- Lozano Family Scholarship
- Prosperity Bank Scholarship
- RMA Texas Chapter Scholarship
- Texas Dow Employees Credit Union Scholarship

Director/Chair: **Mary C Funck**

Director/Chair: **Kurt R Jesswein**

Jonathan P Breazeale, PHD (jpb005@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Texas A&M University; MBA, Millsaps College; BS, United States Military Academy

Xiaoman Duan, PHD (xxd002@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Oklahoma-Norman; MA, Univ of Oklahoma-Norman; BS, Nankai University

Mary C Funck, PHD (mcf012@shsu.edu), *Associate Professor of Finance and Acting Chair, Finance and Banking*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Western Illinois University; MS, Western Illinois University; BS, Western Illinois University

Jose Antonio Gutierrez, PHD (jag063@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Texas-San Antonio; MS, Univ of Texas-San Antonio; BBA, Univ of Texas-San Antonio

Michael Gene Hollander, MBA (mgh035@shsu.edu), *Assistant Professor of Practice in Finance*, *Department of Finance & Banking*, MBA, Univ of Texas At Austin; BBA, St Edwards University

Kurt R Jesswein, PHD (jesswein@shsu.edu), *Associate Professor of Finance and Acting Chair, Econ & Intl Business*, *Department of Finance & Banking*, PHD, Univ of S Carolina-Columbia; MIB, Univ of S Carolina-Columbia; BBA, Univ of Wisconsin-Whitewater

Steve J Johnson, PHD (sjj008@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Utah; MS, Univ of Nebraska-Lincoln; BA, Union College

Balasundram Maniam, PHD (gba_bxm@shsu.edu), *Distinguished Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Arkansas State University; BS, Arkansas State University

Steve A Nenninger, PHD (san009@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Southern Illinois U-Carbondale; MBA, Southeast Missouri State Univ; BSBA, Southeast Missouri State Univ

Karen E Sherrill, PHD (kesherrill@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Florida State University; MS, Florida State University; BS, Rochester Inst of Technology

Robert H Stretcher, PHD (fin_rhs@shsu.edu), *Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Tennessee-Knoxville; MBA, Univ of North Alabama; BA, Univ of Tennessee-Knoxville

Jill Sharp Vaughan, BBA (jls227@shsu.edu), *Assistant Professor of Practice and Smith-Hutson Endowed Chair of Banking*, *Department of Finance & Banking*, BBA, Sam Houston State University

Bachelor of Business Administration, Major in Banking and Financial Institutions

Each BBA degree consists of:

- University Core Curriculum (p. 88) (MATH 1324 should be used to satisfy Core Component II)
- Business Core (p. 88) (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-banking-and-financial-institutions/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Banking and Financial Institutions		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ACCT 3313	Intermediate Accounting I	3
FINC 3310	Financial Institutions and Markets	3
FINC 3330	Financial Spreadsheet Modeling	3
FINC 3345	Financial Data Visualization	3

or FINC 3340	Financial Analytics	
FINC 4320	Commercial Bank Management	3
FINC 4325	Selling Financial Services	3
FINC 4330	Commercial Bank Lending	3
FINC 4335	Financial Statement and Credit Analysis	3
FINC 4345	Investments	3
Major: Prescribed Electives		
Advanced Business Elective [4]		3
FINC Electives [5]		3
Electives: General		
General Elective		3
Minor: Not Required [6, 7]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4 Advanced business courses include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL, or SCMG prefix (3000- or 4000- level).
5 See FINC Electives course list below.
6 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
7 The following minors cannot be paired with this degree program: Minor in Banking, Minor in General Business Administration.

Code	Title	Hours
FINC Electives [5]		
Select one of the following:		3
FINC 3340	Financial Analytics	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance [1]	
FINC 4340	International Finance	
FINC 4355	Securities Analysis and Portfolio Management [1]	
FINC 4365	Seminar in Financial Derivatives [2]	
FINC 4375	Investment Technologies	
FINC 4389	Undergraduate Internship in Finance	
FINC 4390	Managerial Finance	
Total Hours		**3**

1 Typically offered only in the spring semester.
2 Typically offered only in the fall semester.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Banking and Financial Institutions majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Banking and Financial Institutions.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Banking, Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-banking-and-financial-institutions/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)[1]	1	Component Area V (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
MATH 1324[4]	3	MGIS 1305 or CSTE 1330	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)[6]	3
ACCT 2301	3	ACCT 2302	3
BANA 2372	3	ECON 2302[7]	3
ECON 2301	3	FINC 3320	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3313	3
BUAD 3301	3	BUAD 3335	3
FINC 3310	3	FINC 3345 or 3340	3
FINC 3330	3	FINC 4320	3
MGMT 3310	3	MGIS 3310	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Business Elective[8]	3	General Elective	3
FINC 4325	3	FINC Elective[9]	3
FINC 4345	3	FINC 4330	3
MKTG 3310	3	FINC 4335	3
SCMG 3370	3	MGMT 4390	3
	15		**15**

Total Hours: 120

1. The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2. Satisfies the Core Curriculum requirement for Component Area I (Communication).
3. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
6. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8. Advanced business courses include any course with a/an ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, MKTG, REAL, or SCMG prefix (3000- or 4000- level).
9. See FINC Electives course list below.

Code	Title	Hours
FINC Electives [8]		
Select one of the following:		3
FINC 3340	Financial Analytics	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance [1]	
FINC 4340	International Finance	
FINC 4355	Securities Analysis and Portfolio Management [1]	
FINC 4365	Seminar in Financial Derivatives [2]	
FINC 4375	Investment Technologies	
FINC 4389	Undergraduate Internship in Finance	
FINC 4390	Managerial Finance	
Total Hours		**3**

1 Typically offered only in the spring semester.
2 Typically offered only in the fall semester.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Banking and Financial Institutions majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Banking and Financial Institutions.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Banking, Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Banking and Financial Institutions is designed to provide graduates with the following marketable skills:

- Understand banking operations and regulatory compliance issues.
- Understand the function of the financial system, including the structure of the Federal Reserve System and the basics of money markets.
- Apply financial theory and data to solve problems and demonstrate the ability to effectively communicate solutions.
- Apply financial models correctly in solving quantitative problems in banking and finance and in presenting solutions to banking and finance problems.

Bachelor of Business Administration, Major in Banking and Financial Institutions: Concentration in Commercial Real Estate (as of Spring 2026)

Each BBA degree consists of:

- University Core Curriculum (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/) (MATH 1324 (https://catalog.shsu.edu/search/?P=MATH%201324) should be used to satisfy Core Component II)
- Business Core (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/) (see list below)
- Computer Literacy course (MGIS 1305 (https://catalog.shsu.edu/search/?P=MGIS%201305) or CSTE 1330 (https://catalog.shsu.edu/search/?P=CSTE%201330))
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-banking-and-financial-institutions/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Banking and Financial Institutions: Concentration in Commercial Real Estate		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ACCT 3313	Intermediate Accounting I	3
FINC 3310	Financial Institutions and Markets	3

FINC 3330	Financial Spreadsheet Modeling	3
FINC 4320	Commercial Bank Management	3
FINC 3340	Financial Analytics	3
or FINC 3345	Financial Data Visualization	
FINC 4325	Selling Financial Services	3
FINC 4330	Commercial Bank Lending	3
FINC 4335	Financial Statement and Credit Analysis	3
FINC 4345	Investments	3
Concentration: Commercial Real Estate		
REAL 3310	Real Estate Principles	3
REAL 4350	Real Estate Debt	3
REAL 4351	Real Estate Equity	3
Minor: Not Required [4, 5]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

5 The following minors cannot be paired with this degree program: Minor in Banking, Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Banking and Financial Institutions majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Banking and Financial Institutions.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Banking, Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-banking-and-financial-institutions/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)[1]		1 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3

ECON 2301	3	FINC 3320	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3313	3
FINC 3310	3	BUAD 3335	3
FINC 3330	3	FINC 3340 or 3345	3
MGMT 3310	3	FINC 4320	3
MKTG 3310	3	REAL 3310	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
FINC 4325	3	BUAD 3301	3
FINC 4345	3	FINC 4330	3
MGIS 3310	3	FINC 4335	3
REAL 4350	3	MGMT 4390	3
SCMG 3370	3	REAL 4351	3
	15		**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies the Core Curriculum requirement for Component Area I (Communication).
3 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Banking and Financial Institutions majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Banking and Financial Institutions.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Banking, Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Banking and Financial Institutions: Commercial Real Estate Concentration is designed to provide graduates with the following marketable skills:

- Understanding loan origination, underwriting, and portfolio management specific to real estate transactions.
- Expertise in building financial models for real estate investment analysis and project valuation.
- Skills in evaluating property types and their market performance.

- Competence in evaluating creditworthiness and structuring real estate loans.
- Knowledge of real estate project lifecycles, from land acquisition and development to leasing and management.
- Advanced quantitative skills for data analysis and financial forecasting in real estate contexts.

Bachelor of Business Administration, Major in Finance

Each BBA degree consists of:

- University Core Curriculum (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-finance/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Finance		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ACCT 3313	Intermediate Accounting I	3
ACCT 3314	Intermediate Accounting II [4]	3
or ACCT 3347	Cost Accounting	
FINC 3310	Financial Institutions and Markets	3
FINC 3330	Financial Spreadsheet Modeling	3
FINC 3345	Financial Data Visualization	3
FINC 4320	Commercial Bank Management	3

FINC 4335	Financial Statement and Credit Analysis	3
FINC 4345	Investments	3
FINC 4390	Managerial Finance	3
Major: Prescribed Electives		
Prescribed Business Electives [5]		6
Electives: General		
General Elective		3
Minor: Not Required [6, 7]		
Total Hours		**120**

1. MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3. BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4. ACCT 3314 is recommended.
5. Select two courses from the below Prescribed Business Electives course listing. Students wishing to double major in Finance and Banking & Financial Institutions should select FINC 4325 and FINC 4330 as their prescribed business electives.
6. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
7. The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Code	Title	Hours
FINC Electives [5]		
Select two from the following:		6
BUAD 3355	Business Law [1]	
BUAD 4310	Securities Regulation [1]	
ECON 3357	Intermediate Microeconomics [2]	
ECON 4373	Monetary Economics [2]	
FINC 3340	Financial Analytics	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance [4]	
FINC 4325	Selling Financial Services	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	
FINC 4355	Securities Analysis and Portfolio Management [3]	
FINC 4365	Seminar in Financial Derivatives [4]	
FINC 4375	Investment Technologies	
FINC 4389	Undergraduate Internship in Finance	
Total Hours		**6**

1. Only one of BUAD 3355 or BUAD 4310 may count.
2. Only one of ECON 3357 or ECON 4373 may count.
3. Typically offered only in the spring semester.
4. Typically offered only in the fall semester.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Finance majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Finance.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-finance/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)[1]		1 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 FINC 3320	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 ACCT 3313	3
BUAD 3301		3 BUAD 3335	3
FINC 3310		3 FINC 3345	3
FINC 3330		3 FINC 4320	3
MGMT 3310		3 MGIS 3310	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3314 or 3347[8]		3 Prescribed Business Electives[9]	6
FINC 4335		3 General Elective	3
FINC 4345		3 FINC 4390	3
MKTG 3310		3 MGMT 4390	3
SCMG 3370		3	
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).

7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

8 ACCT 3314 is recommended.

[9] Select two courses from the below Prescribed Business Electives course listing.

Code	Title	Hours
FINC Electives [9]		
Select two from the following:		6
BUAD 3355	Business Law [1]	
BUAD 4310	Securities Regulation [1]	
ECON 3357	Intermediate Microeconomics [2]	
ECON 4373	Monetary Economics [2]	
FINC 3340	Financial Analytics	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance [3]	
FINC 4325	Selling Financial Services	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	
FINC 4355	Securities Analysis and Portfolio Management [3]	
FINC 4365	Seminar in Financial Derivatives [4]	
FINC 4375	Investment Technologies	
FINC 4389	Undergraduate Internship in Finance	
Total Hours		**6**

[1] Only one of BUAD 3355 or BUAD 4310 may count.
[2] Only one of ECON 3357 or ECON 4373 may count.
[3] Typically offered only in the spring semester.
[4] Typically offered only in the fall semester.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Finance majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Finance.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Finance is designed to provide graduates with the following marketable skills:

- Understanding of investments including: the ability to quantify price and yield metrics and measure performance for both fixed-income and equity securities singularly and in portfolios; understanding risk, return, and diversification; and understanding options both for hedging and speculation.
- Understand the function of the financial system, including the operations and structure of the Federal Reserve and banking system, bond markets, stock markets, and understanding money markets.
- Proficiency in calculating historical and prospective financial ratios used in analyzing financial statement data, in manipulating financial accounting data as needed to gain a broader understanding of financial accounting relationships, and in interpreting financial ratios and similar metrics used in making investment and financing decisions.

- Ability to create and analyze information useful to the managers of a firm, including understanding and explaining the cost of capital, cash flows as they form the basis for valuation of real and financial assets, and demonstrating the ability to summarize and analyze potential investment projects.

Bachelor of Business Administration, Major in Finance: Concentration in Financial Management

Each BBA degree consists of:

- University Core Curriculum (p. 88) (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required Courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Code	Title	Hours
Bachelor of Business Administration, Major in Finance: Concentration in Financial Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ACCT 3313	Intermediate Accounting I	3
FINC 3310	Financial Institutions and Markets	3
FINC 3330	Financial Spreadsheet Modeling	3
FINC 4345	Investments	3
Concentration: Financial Management		
ACCT 3314	Intermediate Accounting II	3
or ACCT 3347	Cost Accounting	

FINC 3345	Financial Data Visualization	3
or FINC 3340	Financial Analytics	
FINC 4320	Commercial Bank Management	3
FINC 4335	Financial Statement and Credit Analysis	3
FINC 4390	Managerial Finance	3
Electives: General		
General Electives		3
Electives: Advanced		
Advanced Business Electives [4]		6
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 2321 or COMS 2382 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 Select two courses from the Advanced Business Electives course listing below.

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Finance majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Finance.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Code	Title	Hours
Advanced Business Electives [4]		
Select two courses from the following:		6
BUAD 3355	Business Law	
or BUAD 4310	Securities Regulation	
ECON 3357	Intermediate Microeconomics	
or ECON 4373	Monetary Economics	
FINC 3345	Financial Data Visualization [1, 2]	
or FINC 3340	Financial Analytics	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance	
FINC 4325	Selling Financial Services	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	
FINC 4355	Securities Analysis and Portfolio Management	
FINC 4365	Seminar in Financial Derivatives	

FINC 4375	Investment Technologies
FINC 4389	Undergraduate Internship in Finance

1 Select the course not taken as a required Concentration course.
2 Students completing the Concentration in Financial Management are encouraged to take FINC 3345 instead of FINC 3340.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)[1]		1 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 FINC 3320	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 ACCT 3313	3
BUAD 3301		3 BUAD 3335	3
FINC 3310		3 FINC 3345 or 3340	3
FINC 3330		3 FINC 4320	3
MGMT 3310		3 MGIS 3310	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3314 or 3347		3 Advanced Business Elective[8]	3
Advanced Business Elective[8]		3 FINC 4335	3
FINC 4345		3 FINC 4390	3
MKTG 3310		3 General Elective	3
SCMG 3370		3 MGMT 4390	3
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies the Core Curriculum requirement for Component Area I (Communication).
3 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
6 BUAD 2321 or COMS 2382 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 Select two courses from the Advanced Business Electives course listing below.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Finance majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Finance.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Code	Title	Hours
Advanced Business Electives [8]		
Select two courses from the following:		6
BUAD 3355	Business Law	
or BUAD 4310	Securities Regulation	
ECON 3357	Intermediate Microeconomics	
or ECON 4373	Monetary Economics	
FINC 3345	Financial Data Visualization [1, 2]	
or FINC 3340	Financial Analytics	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance	
FINC 4325	Selling Financial Services	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	
FINC 4355	Securities Analysis and Portfolio Management	
FINC 4365	Seminar in Financial Derivatives	
FINC 4375	Investment Technologies	
FINC 4389	Undergraduate Internship in Finance	

1 Select the course not taken as a required Concentration course.
2 Students completing the Concentration in Financial Management are encouraged to take FINC 3345 instead of FINC 3340.

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The BBA in Finance: Concentration in Financial Management is designed to provide graduates with the following marketable skills:

- Understanding of investments including: the ability to quantify price and yield metrics and measure performance for both fixed-income and equity securities singularly and in portfolios; understanding risk, return, and diversification; and understanding options both for hedging and speculation.
- Understand the function of the financial system, including the operations and structure of the Federal Reserve and banking system, bond markets, stock markets, and understanding money markets.
- Proficiency in calculating historical and prospective financial ratios used in analyzing financial statement data, in manipulating financial accounting data as needed to gain a broader understanding of financial accounting relationships, and in interpreting financial ratios and similar metrics used in making investment and financing decisions.
- Ability to create and analyze information useful to the managers of a firm, including understanding and explaining the cost of capital, cash flows as they form the basis for valuation of real and financial assets, and demonstrating the ability to summarize and analyze potential investment projects.

Bachelor of Business Administration, Major in Finance: Concentration in Investments

Each BBA degree consists of:

- University Core Curriculum (p. 88) (MATH 1324 should be used to satisfy Core Component II)
- Business Core (see list below)
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Code	Title	Hours
Bachelor of Business Administration, Major in Finance: Concentration in Investments		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Foundation		
ACCT 3313	Intermediate Accounting I	3
FINC 3310	Financial Institutions and Markets	3
FINC 3330	Financial Spreadsheet Modeling	3
FINC 4345	Investments	3
Concentration: Investments		
FINC 3340	Financial Analytics	3
or FINC 3345	Financial Data Visualization	

FINC 4335	Financial Statement and Credit Analysis	3
FINC 4355	Securities Analysis and Portfolio Management	3
FINC 4365	Seminar in Financial Derivatives	3
FINC 4375	Investment Technologies	3
Electives: General		
General Electives		3
Electives: Advanced		
Advanced Business Electives [4]		6
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 2321 or COMS 2382 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 Select two courses from the Advanced Business Electives course listing below.

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Finance majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Finance.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Code	Title	Hours
Advanced Business Electives [4]		
Select two courses from the following:		6
ACCT 3314	Intermediate Accounting II	
or ACCT 3347	Cost Accounting	
BUAD 3355	Business Law	
or BUAD 4310	Securities Regulation	
ECON 3357	Intermediate Microeconomics	
or ECON 4373	Monetary Economics	
FINC 3340	Financial Analytics [1, 2]	
or FINC 3345	Financial Data Visualization	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance	
FINC 4320	Commercial Bank Management	
FINC 4325	Selling Financial Services	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	

FINC 4389	Undergraduate Internship in Finance
FINC 4390	Managerial Finance

1 Select the course not taken as a required Concentration course.
2 Students completing the Concentration in Investments are encouraged to take FINC 3340 instead of FINC 3345.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)[1]		1 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 FINC 3320	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 ACCT 3313	3
BUAD 3301		3 FINC 3340 or 3345	3
FINC 3310		3 FINC 4335	3
FINC 3330		3 FINC 4345	3
MGMT 3310		3 MGIS 3310	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Business Elective[8]		3 Advanced Business Elective[8]	3
BUAD 3335		3 FINC 4355	3
FINC 4365		3 FINC 4375	3
MKTG 3310		3 General Elective	3
SCMG 3370		3 MGMT 4390	3
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies the Core Curriculum requirement for Component Area I (Communication).
3 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
6 BUAD 2321 or COMS 2382 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 Select two courses from the Advanced Business Electives course listing below.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Finance majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Finance.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Finance, Minor in General Business Administration.

Code	Title	Hours
Advanced Business Electives [8]		
Select two courses from the following:		6
ACCT 3314	Intermediate Accounting II	
or ACCT 3347	Cost Accounting	
BUAD 3355	Business Law	
or BUAD 4310	Securities Regulation	
ECON 3357	Intermediate Microeconomics	
or ECON 4373	Monetary Economics	
FINC 3340	Financial Analytics [1, 2]	
or FINC 3345	Financial Data Visualization	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial and Small Firm Finance	
FINC 4320	Commercial Bank Management	
FINC 4325	Selling Financial Services	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	
FINC 4389	Undergraduate Internship in Finance	
FINC 4390	Managerial Finance	

1 Select the course not taken as a required Concentration course.

2 Students completing the Concentration in Investments are encouraged to take FINC 3340 instead of FINC 3345.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Finance: Concentration in Investments is designed to provide graduates with the following marketable skills:

- Data Analysis and Visualization - collecting, analyzing, interpreting, and communicating data.
- Financial modeling and valuation.
- Identifying, assessing, and mitigating financial risks to ensure the financial stability and integrity of an organization.
- Strategic financial planning - forecast future financial scenarios, set financial goals, and devise plans to achieve those objects.

Minor in Banking

A Minor in Banking (18 hours) is available for all bachelor's degree programs in the College of Business Administration. The Minor in Banking requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Banking		
Required Courses		
FINC 3310	Financial Institutions and Markets	3
FINC 4320	Commercial Bank Management	3
FINC 4330	Commercial Bank Lending	3
FINC 4335	Financial Statement and Credit Analysis	3
Select two of the following:		6
FINC 3330	Financial Spreadsheet Modeling	
FINC 3340	Financial Analytics	
FINC 3345	Financial Data Visualization	
FINC 4315	Entrepreneurial and Small Firm Finance	
FINC 4325	Selling Financial Services	
FINC 4340	International Finance	
FINC 4345	Investments	
FINC 4375	Investment Technologies	
FINC 4389	Undergraduate Internship in Finance [1]	
FINC 4390	Managerial Finance	
Total Hours		**18**

[1] FINC 4389 can be taken for no more than 3 semester hours per semester with a maximum of 6 hours.

The Minor in Banking is also available to Agricultural Business majors. In addition to the courses listed here for COBA majors, the following additional courses may be required for Agricultural Business majors to obtain the Minor in Banking:

Code	Title	Hours
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
FINC 3320	Business Finance	3
Total Hours		**9**

Furthermore, degree candidates for a Minor in Banking must achieve a minimum 2.0 grade point average for all hours attempted in finance courses, both in residence and overall (SHSU and transfer combined).

Minor in Finance

A Minor in Finance (24 hours) is available to all bachelor's degree programs that permit a minor. The Minor in Finance requires the following courses with a minimum grade point average of 2.0 in residence at SHSU and overall.

Code	Title	Hours
Minor in Finance		
Required Courses		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
FINC 3310	Financial Institutions and Markets	3
FINC 3320	Business Finance	3
FINC 4345	Investments	3
Prescribed Electives		
Advanced Finance Electives [1]		6
Finance Elective [2]		3
Total Hours		**24**

1 Select two from the below Advance Finance Electives list.
2 Select either one from the below Advance Finance Elective list or FINC 1307.

Code	Title	Hours
Advanced Finance Electives		
FINC 3330	Financial Spreadsheet Modeling [1]	3
FINC 3340	Financial Analytics	3
FINC 3345	Financial Data Visualization	3
FINC 4080	Independent Study	3
FINC 4085	Special Topic	3
FINC 4315	Entrepreneurial and Small Firm Finance [2]	3
FINC 4320	Commercial Bank Management	3
FINC 4325	Selling Financial Services [3]	3
FINC 4330	Commercial Bank Lending	3
FINC 4335	Financial Statement and Credit Analysis	3
FINC 4340	International Finance	3
FINC 4355	Securities Analysis and Portfolio Management [2]	3
FINC 4365	Seminar in Financial Derivatives [3]	3
FINC 4375	Investment Technologies	3
FINC 4389	Undergraduate Internship in Finance	3
FINC 4390	Managerial Finance	3

1 FINC 3330 is strongly recommended.
2 Typically offered only in the spring semester.
3 Typically offered only in the fall semester.

Furthermore, degree candidates for a Minor in Finance must achieve a minimum 2.0 grade point average for all hours attempted in finance courses, in residence at SHSU and overall (SHSU and transfer combined).

Department of Management and Marketing

Chair: Irfan Ahmed, Ph.D. (mgt_ixa@shsu.edu); (936) 294-1265

Website: Forthcoming

Vision

The Department of Management and Marketing aspires to develop professionals to be leaders by offering a high quality education in the major degree programs of Management, Human Resource Management, and Marketing.

Mission

The mission of the Department of Management and Marketing is to equip students with the requisite knowledge and skills in management, human resource management, marketing, and related careers. The department is committed to excellence in teaching, intellectual contributions, and service.

Academic Programs

The **Management degree program (MGMT)** is designed to develop business acumen and leadership skills among students so that they may contribute to the success of organizations in various sectors.

The **Human Resource Management degree program (HRM)** is intended to prepare students to manage an organization's human resources. In particular, the core HRM practices of recruitment & selection, training & development, compensation & benefits, and performance management are examined to promote efficiency and effectiveness, and to maximize the value of human capital in an organization.

The **Marketing degree program (p. 425) (MKTG)** prepares students to make managerial decisions that involve the process of creating, promoting, pricing, and delivering goods, services, and ideas that provide value. Graduates with a BBA in Marketing will possess the knowledge and skills in the areas of written communication, decision making, presentation, persuasion and negotiation, data and financial analysis, ethical behavior, teamwork, and other business-related functions in a dynamic global environment.

- Bachelor of Business Administration, Major in Human Resource Management (p. 419)
- Bachelor of Business Administration, Major in Management (p. 422)
- Bachelor of Business Administration, Major in Marketin (p. 425)g (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/management-marketing-and-information-systems/bba-marketing/)
- Minor in Management (p. 429)
- Minor in Marketing (p. 430)

Student Organizations

The following student organizations are affiliated with the Department of Management and Marketing:

- Society for Human Resource Management (SHRM)
- Marketing Student Club

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarships4Kats (https://shsu.academicworks.com/) program on the Financial Aid (http://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for College of Business Administration scholarships is December 31. The specific scholarships available in the Department of Management and Marketing vary from year-to-year and may include:

- Dr. Paul and Emily Reed Human Resource Management Scholarship
- Helen Cochran Gilliland Human Resource Management Scholarship
- Management and Marketing Department Scholarship

Please see the College of Business Administration section (p. 331) for information on college and university-level scholarships.

Information forthcoming.

Bachelor of Business Administration, Major in Human Resource Management

Each BBA degree consists of:

- University Core
- Business Core
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) (TWC) campus or through SHSU Online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-human-resource-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Human Resource Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major Required Courses		
BUAD 3360	Human Resources Management Law	3
COMS 3371	Conflict, Negotiation, and Resolution	3
or BUAD 4325	Negotiation in Business	
ECON 3351	Labor Economics	3
MGMT 3320	Organizational Behavior	3
MGMT 3330	Human Resource Management	3
MGMT 4330	Compensation	3

MGMT 4335	Management and Labor Relations	3
MGMT 4345	Social Responsibility of Management	3
MGMT 4355	Human Resource Development	3
Major: Prescribed Electives		
Electives: Advanced Business [4]		6
Electives: General		
General Electives		3
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4 Select from 3000 or 4000 level COBA courses.
5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
6 The following minors cannot be paired with this degree program: Minor in Management, Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Management, Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-human-resource-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III	4
Component Area IX (p. 91)[1]		1 Component Area V	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 General Electives	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 ECON 3351	3

BUAD 3301	3	MGIS 3310	3
FINC 3320	3	MGMT 3320	3
MGMT 3310	3	MGMT 3330	3
MKTG 3310	3	SCMG 3370	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
BUAD 3335	3	Electives: Advanced Business[8]	3
BUAD 3360	3	Electives: Advanced Business[8]	3
COMS 3371 or BUAD 4325	3	MGMT 4335	3
MGMT 4330	3	MGMT 4355	3
MGMT 4345	3	MGMT 4390	3
	15		**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 Select from 3000 or 4000 level COBA courses.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Management, Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Human Resource Management is designed to provide graduates with the following marketable skills:

- Communication skills, both oral and written.
- Critical thinking skills.
- Global and cultural awareness.
- Leadership skills.
- People skills.

Bachelor of Business Administration, Major in Management

Each BBA degree consists of:

- University Core (p. 88)
- Business Core
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Management Major Required courses
- Elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) (TWC) campus or through SHSU Online (http://distance.shsu.edu/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Required Courses		
MGMT 3320	Organizational Behavior	3
MGMT 3330	Human Resource Management	3
MGMT 4340	International Management	3
or MKTG 4340	International Marketing	
MGMT 4345	Social Responsibility of Management	3
Major: Prescribed Electives		

MGMT Technical Electives		15
Select five from the following:		
MGIS 3330	Business Database Management	
MKTG 3350	Services Marketing Management	
Advanced MGMT or SCMG Electives (3000- or 4000- level) not including required MGMT or SCMG courses		
Electives: Advanced Business [4]		6
Electives: General		
General Electives		3
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.

4 Any 3000 or 4000-level course with a COBA prefix.

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 The following minor cannot be paired with this degree program: Minor in General Business Administration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minimum grade of "C" is required in all Management (MGMT & SCMG) courses taken for the Management major. This includes MGIS 3330 and MKTG 3350 as they would count as MGMT electives.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)[1]		1 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[6]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[7]	3
ECON 2301		3 General Electives	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 BUAD 3335	3
BUAD 3301		3 MGIS 3310	3

FINC 3320		3 MGMT 3320	3
MGMT 3310		3 MGMT 3330	3
MKTG 3310		3 SCMG 3370	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
Electives: Advanced Business [8]		3 MGMT 4345	3
Electives: Advanced Business [8]		3 MGMT 4390	3
MGMT 4340 or MKTG 4340		3 MGMT Technical Electives [9]	3
MGMT Technical Electives [9]		3 MGMT Technical Electives [9]	3
MGMT Technical Electives [9]		3 MGMT Technical Electives[9]	3
		15	**15**

Total Hours: 120

1 The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 Any 3000 or 4000-level course with a COBA prefix.
9 Any advanced MGMT elective (3000-4000) or MKTG 3350 or MGIS 3330 will fulfill this requirement.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minimum grade of "C" is required in all Management (MGMT or SCMG) courses taken for the Management major. This includes MGIS 3330 and MKTG 3350 as they would count as MGMT electives.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Management is designed to provide graduates with the following marketable skills:

- Communication skills, both oral and written.
- Strategic and critical analysis.
- Teamwork.
- Leadership.

Bachelor of Business Administration, Major in Marketing

Each BBA degree consists of:

- University Core Curriculum (p. 88)
- Business Core
- Computer Literacy course (MGIS 1305 or CSTE 1330)
- Major Required courses
- Elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center/) campus or through SHSU Online (http://distance.shsu.edu/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-marketing/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Business Administration, Major in Marketing		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirement		
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MGIS 1305	Business Computer Applications	3
or CSTE 1330	Introduction to Computers	
Business Core		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [2]	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Major: Required		
MKTG 3320	Consumer Behavior	3
MKTG 3328	Professional Selling	3
MKTG 4350	Marketing Research	3
MKTG 4390	Strategic Marketing Management	3
Major: Prescribed Electives		
Marketing Technical Electives [4]		15

Electives: Advanced Prescribed [5]	6
Electives: General	
General Electives	3
Minor: Not Required [6, 7]	
Total Hours	**120**

1 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 BUAD 1301 or BUAD 2321 is suggested to fulfill the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). The following courses satisfy one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option): ECON 1100, KINE 2115, MCOM 1130, NGLI 1101, or UNIV 1101.
4 See the course listing below for Marketing Technical Electives.
5 Select from 3000 or 4000 level COBA courses.
6 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
7 The following minor cannot be paired with this degree program: Minor in General Business Administration.

Code	Title	Hours
Marketing Technical Electives [4]		
Select five from the following:		15
Advanced MKTG Electives (3000 or 4000 level), not including required MKTG courses		
SCMG 3372	Supply Chain Management	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minimum grade of "C" in required Marketing courses, MKTG 3320, MKTG 3328, MKTG 4350, and MKTG 4390.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in General Business Administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-business-administration-in-marketing/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)[1]		1 Component Area V (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1324[4]		3 MGIS 1305 or CSTE 1330	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[1]	3
ACCT 2301		3 ACCT 2302	3
BANA 2372		3 ECON 2302[6]	3
ECON 2301		3 General Electives	3

POLS 2305[5]		3 POLS 2306[5]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
BANA 3363		3 Marketing Technical Electives[7]	3
BUAD 3301		3 Marketing Technical Electives[7]	3
FINC 3320		3 MGIS 3310	3
MGMT 3310		3 MKTG 3320	3
MKTG 3310		3 SCMG 3370	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
BUAD 3335		3 Electives: Advanced Prescribed[8]	3
Electives: Advanced Prescribed[8]		3 Marketing Technical Electives[7]	3
Marketing Technical Electives[7]		3 Marketing Technical Electives[7]	3
MKTG 3328		3 MGMT 4390	3
MKTG 4350		3 MKTG 4390	3
	15		**15**

Total Hours: 120

1 BUAD 1301 or BUAD 2321 (3 hours) and UNIV 1101 (1 hour) are suggested to fulfill the four-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option)
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 is required for COBA and satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 ECON 2302 is a Business Core course and should be taken to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7 See the course listing below for Marketing Technical Electives.
8 Select from 3000 or 4000 level COBA courses.

Code	Title	Hours
Marketing Technical Electives [7]		
Select five from the following:		15
Advanced MKTG Electives (3000 or 4000 level), not including required MKTG courses		
SCMG 3372	Supply Chain Management	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minimum grade of “C” in required Marketing courses, MKTG 3320, MKTG 3328, MKTG 4350, and MKTG 4390.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in General Business Administration.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BBA in Marketing is designed to provide graduates with the following marketable skills:

- Professional communication skills: verbal and written.
- Critical thinking, problem solving, and analytic ability.
- Teamwork, interpersonal skills, and influencing skills.
- Proficient with productivity software.
- Creativity and ability to think outside the box.

Minor in Management

A Minor in Management (18 hours) is available for all bachelor's degree programs that permit a minor. The Minor in Management requires the following courses with a minimum grade point average of 2.0 in residence and overall.

Code	Title	Hours
Minor in Management		
Required Courses		
MGMT 3310	Principles Of Management	3
MGMT 3320	Organizational Behavior	3
12 additional advanced hours in MGMT or SCMG courses		12
Total Hours		**18**

Furthermore, degree candidates for a Minor in Management must achieve a minimum 2.0 grade point average for all hours attempted in management (MGMT or SCMG) courses, in residence at SHSU and overall (SHSU and transfer combined).

Minor in Marketing

A Minor in Marketing (18 hours) is available for all bachelor's degree programs that permit a minor. The Minor in Marketing requires the following courses with a minimum grade point average of 2.0 in residence at SHSU and overall.

Code	Title	Hours
Minor in Marketing		
Required Courses		
MKTG 3310	Principles Of Marketing	3
15 additional advanced hours in Marketing		15
Total Hours		**18**

Furthermore, degree candidates for a Minor in Marketing must achieve a minimum 2.0 grade point average for all hours attempted in marketing courses, in residence at SHSU and overall (SHSU and transfer combined).

College of Criminal Justice

Administrative Officers

Title/Department	Officer
Dean	Phillip Lyons, J.D., Ph.D. plyons@shsu.edu; (936) 294-1700
Senior Associate Dean	Danielle Boisvert, Ph.D. dxb014@shsu.edu; (936) 294-1644
Chief Executive Director, Criminal Justice Center	Randy Garner, Ph.D. rgarner@shsu.edu; (936) 294-4646
Associate Dean for Marketing and External Communications	Janet Mullings, Ph.D. icc_jlm@shsu.edu; (936) 294-3965
Associate Dean for Programs and Assessment	Erin Orrick, Ph.D. eorrick@shsu.edu; (936) 294-3643
Department of Criminal Justice and Criminology	Jason Ingram, Ph.D., Chair jri004@shsu.edu; (936) 294-1698
Criminal Justice MA and PhD Programs	Wanda Leal, Ph.D., Director wel004@shsu.edu; (936) 294-1667
Criminal Justice Online Graduate Programs	Ryan Randa, Ph.D., Director ryan.randa@shsu.edu; (936) 294-4366
Criminal Justice Undergraduate Programs	Eric Connolly, Ph.D., Director ejc025@shsu.edu; (936) 294-4941
Department of Forensic Science	Sheree Hughes, Ph.D., Chair sheree.hughes@shsu.edu; (936)-294-2608
Forensic Science Graduate Programs	J. Tyler Davidson, Ph.D., Director jtdavidson@shsu.edu; (936) 294-3202
Forensic Science Online Undergraduate Programs	Rachel Houston, Ph.D., Director rmh034@shsu.edu; (936) 294-4359
Department of Security Studies	Nadav Morag, Ph.D., Chair morag@shsu.edu; (936) 294-4128
Security Studies Graduate Programs	Nathan Jones, Ph.D., Director nxj008@shsu.edu; (936) 294-3635
Security Studies Undergraduate Programs	Magdalena Denham, Ph.D., Director magdalena@shsu.edu; (936) 294-4748
Department of Victim Studies	Shelly Clevenger, Ph.D., Chair sxc167@shsu.edu; (936) 294-3871
Victim Studies Graduate Programs	Philip Mulvey, Ph.D., Director pwm010@shsu.edu; (936) 294-4174
Victim Studies Undergraduate Programs	Katie Ratajczak, Ph.D., Director kxr084@shsu.edu; (936) 294-1662

Mission

The College of Criminal Justice is committed to providing students with a quality liberal arts education that develops critical thinking with a particular emphasis on the scientific method. Furthermore, students will gain an appreciation of their role as criminal justice professionals and as contributing members of society. As a part of a public university, the College also is committed to producing high quality research and public service.

The University baccalaureate core curriculum will provide the foundation for talents necessary to succeed in the criminal justice profession and in society. These talents include:

- an ability to communicate effectively, both orally and in writing.
- an ability to use numbers and symbols in the representation of reality and to engage in logical thinking.
- an appreciation of the scientific method and the contribution of the sciences.
- an appreciation of culture through the visual and performing arts.
- an appreciation of human diversity and the imperative of human values in the preservation of a free society.
- an understanding of the political nature of society and its role in the Union of the United States.
- an understanding of the role of the individual as part of the family, groups, organization, and society.

- an appreciation of moral and ethical judgment.
- an appreciation of self through physical, social, and psychological development.

Criminal Justice: Criminal justice is a discipline that encompasses the preservation and protection of social order in a free society. It includes such principles as democracy, rule of law, constitutionalism, civil liberties, and safeguarding people against intimidation and oppression. The Criminal Justice curriculum, which is based on the University's liberal arts core, is designed to prepare students for higher education or entering careers in criminal justice. Graduates are expected to continue their personal and professional development in a variety of practical settings. To achieve this mission, four dimensions of development serve as a basis for the curriculum.

Knowledge, Reasoning, Judgment: The Criminal Justice curriculum provides students with the opportunity and assistance to acquire knowledge of the roles of policing, courts, laws, victim studies, and corrections as they contribute to social order. Students will gain knowledge of the history, concepts, and critical issues in these areas through criminal justice required courses. The curriculum further provides a theoretical foundation of the discipline, combined with a thorough understanding of the scientific method as it applies to criminal justice. This combination is expected to sharpen the students' talents of reasoning and judgment — qualities imperative to rational functioning in the discipline.

Ability, Skills, Integration: The Criminal Justice curriculum provides students with the ability to achieve the professional goals of criminal justice. Students will learn how to integrate knowledge and practice in criminal justice. Furthermore, the curriculum provides students with an opportunity to develop the individual and group skills necessary to meet various role expectations.

Conduct, Professionalism, Ethics: The Criminal Justice curriculum provides students with an appreciation for the complexity and dilemmas associated with the criminal justice profession. Criminal Justice students will be exposed to the moral and ethical dimensions of the various careers within the discipline and will be charged with the essential aptitudes necessary for their professional conduct.

Vision, Change, Adaptation: The Criminal Justice curriculum provides students with an understanding of the discipline as it currently exists and as it is envisioned to be in the future. The Criminal Justice student will be able to apply vision in the face of change and to respond to the evolving nature of criminal justice and society. Furthermore, students will be equipped with the tools of adaptation for making these changes.

The Criminal Justice program at Sam Houston State University was established by the Texas Legislature in 1965 under House Resolution 469, which directed the University to establish a program of excellence in criminal justice with four objectives:

- Provide training for undergraduate and graduate students preparing for careers in criminal justice;
- Provide a program of continuing education for professionals already employed in the field;
- Provide technical assistance and consultation services to criminal justice agencies; and
- Promote research on problems in crime and the administration of criminal justice.

The College of Criminal Justice has developed a regional and national reputation for excellence. The academic programs include a major in criminal justice at the bachelor's level and graduate degrees at the masters and doctoral levels. The program leading to the Doctor of Philosophy in Criminal Justice is available only to students already holding an advanced degree.

Highlights

- The Criminal Justice Center is a 130,000 square foot facility which houses a courtroom, auditorium, conference facilities, hotel and café.
- The Criminal Justice Center encompasses the Bill Blackwood Law Enforcement Institute of Texas, the Correctional Management Institute of Texas, and the Crime Victims' Institute.
- The Criminal Justice program boasts one of the largest and most productive faculties in the United States with experts in the field of law, law enforcement, police administration, criminology, corrections, history, psychology, security studies, terrorism, victim studies, forensic anthropology, and forensic science.
- Recruiters from various agencies around the world visit the center on a regular basis and the College offers its own Career Fairs each semester.
- Students receive real world experience by participating in agency tours, internships, and regional/national conferences.

Academic Programs

Major	Degree(s)
Career and Technology Program: Criminal Justice Concentration	B.A.A.S.
Criminal Justice	B.A., B.S.
Homeland Security Studies	B.A., B.S.
Victim Studies	B.A., B.S.

Undergraduate Certificate

- Biosecurity and Pandemics
- Crime Analysis and Mapping
- Criminal Justice

- Criminal Justice and Social Identity
- Investigative Forensic Science
- Management and Leadership in Criminal Justice
- Security and Resilience in the Chemical Energy Sectors
- Security and Resilience in the Healthcare Sector
- Security and Resilience in the Transportation Sectors
- Victim Studies

Suggested Minors

- Accounting
- Biology
- Chemistry
- Communication Studies
- Computer Science
- Criminal Justice
- Criminal Justice and Social Identity
- Forensic Science
- Foreign Language
- General Business
- Homeland Security Studies
- Information Assurance
- Psychology
- Sociology

Career Opportunities

- Police Agencies - Federal, State, County, Municipal
- Security Management
- Immigration/Customs Enforcement
- Border Patrol
- Drug Enforcement
- Private Investigation
- Probation
- Parole
- Family/Child Services
- Correctional Advisor/Counselor
- Game Warden
- Military Police
- Military Intelligence
- Victim Services Specialist
- Criminal Justice Professor

Student Organizations and Activities

- Alpha Phi Sigma National Criminal Justice Honor Society
- Crime Victims Service Alliance
- Lambda Alpha Epsilon Criminal Justice Association
- National Association of Blacks in Criminal Justice
- National Associate of Hispanics in Criminal Justice
- Phi Alpha Delta Pre-Law Society
- Society of Forensic Science

The College of Criminal Justice hosts a variety of events for students including special guest lecturers at Real Talk with CJ, College of Criminal Justice Career Fair, College of Criminal Justice Undergraduate Conference, victimology fairs, and mock courtroom trials.

Internships/Study Abroad

The College of Criminal Justice has the largest internship program in the country. Through the Internship Program, many criminal justice agencies in the United States have had an opportunity to recruit dedicated and well-educated men and women for careers in law enforcement, corrections, victim services, law, forensic science and a variety of social service agencies that work with the offender. Students interested in serving as interns must have maintained a cumulative grade point average of at least 2.50 in all coursework and be classified as seniors. Field placements range from local to international agencies with emphases on law enforcement, corrections, courts/legal services, victim services and support/social services. The following is a list of some of the agencies used as field placements:

- Bureau of Alcohol, Tobacco, and Firearms
- Drug Enforcement Administration
- Federal Bureau of Investigations
- Federal Law Enforcement Training Center
- INTERPOL
- Pinkerton Investigative Services
- Texas Attorney General
- Texas Department of Public Safety
- Texas Parks and Wildlife
- United Nations
- United States Custom Service
- United States Department of State
- United States Marshal Service
- United States Secret Service
- White House Security, Washington D.C.

The College of Criminal Justice offers a variety of study abroad opportunities to contrasting locales, including Turkey, Poland, Italy, Korea, Spain, and China. Traveling with SHSU turns an ordinary trip into an unforgettable experience. Students may receive 3 hours of academic credit for study abroad. Classes include study of justice administration in the study country, including: victimology, human rights issues, police training, crime patterns and trends, correctional systems and criminal and procedural law. For more information, visit (http://www.shsu.edu/academics/criminal-justice/services/forms.html)Criminal Justice Study Abroad (http://www.shsu.edu/academics/criminal-justice/services/forms.html)

Scholarships

Scholarships are available to criminal justice majors and awarded in the spring of each year at the College of Criminal Justice Honors Convocation for the following academic year. With the exception of incoming freshmen scholarships, a student must have completed at least one long semester at Sam Houston State University. For more information, visit CJ scholarship. (http://www.shsu.edu/academics/criminal-justice/services/scholar.html)

Sam Houston State University is authorized by the Texas Higher Education Coordinating Board to offer a Bachelor of Arts degree and a Bachelor of Science degree with a major in Criminal Justice or Victim Studies. Coursework for these degrees is offered by the College of Criminal Justice. The prefix designation for registration purposes is "CRIJ"

Information on Programs and Grants

For additional information regarding admission requirements, degree programs, description of courses, and scholarships available to students, please refer to appropriate sections of the Undergraduate Catalog or the Graduate Catalog of Sam Houston State University. Brochures and information regarding the College of Criminal Justice baccalaureate, master's, and doctoral programs may be obtained by visiting the Criminal Justice (https://www.shsu.edu/academics/criminal-justice/) website or by writing:

Dean and Director
College of Criminal Justice
Sam Houston State University
Huntsville, Texas 77341-2296

Requests for information concerning loans, grants, and other financial aid to undergraduate students should be addressed to the:

Student Financial Aid Office
Sam Houston State University
Huntsville, Texas 77341-2328.

Undergraduate Certificate in Management and Leadership in Criminal Justice

The Undergraduate Certificate in Management and Leadership in Criminal Justice is designed for immediate impact and long-term relevance. The undergraduate Certificate equips professionals for advanced leadership roles, responding to the evolving expectations of law enforcement agencies as well as represents a strategic step for those aiming to lead and innovate within the sector. Rooted in a tradition of excellence and informed by current industry needs, this program addresses the immediate and future aspirations of professionals and new entrants.

Code	Title	Hours
Undergraduate Certificate in Management and Leadership in Criminal Justice		
Required Courses		
CRIJ 2367	Police Systems & Practices	3
CRIJ 3338	Introduction to Police Personnel Management	3
CRIJ 3390	Contemporary Issues in Police Management	3
Prescribed Electives		
Choose one course from the following:		3
CRIJ 4336	Understanding Human Behavior	
CRIJ 4365	Professionalism and Ethics In Criminal Justice	
CRIJ 4384	Police Strategies	
Total Hours		**12**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX** plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Management and Leadership in Criminal Justice is designed to provide graduates with the following marketable skills:

- Critical thinking and evidence-based analysis of crime and criminal justice activities.
- Effective communication in legal and law enforcement contexts, both internally and to community stakeholders.
- Strategic decision-making for law enforcement resource allocation.
- Proactivity and initiative in crime prevention and community relations.

Department of Criminal Justice & Criminology

Chair: J (eao010@shsu.edu)ason Ingram (jri004@shsu.edu), Ph.D., (936) 294-1698

For questions about our Undergraduate Programs, contact:

Dr. Eric Connolly (ejc025@shsu.edu), Director of Undergraduate Programs, 936-294-4941

Website: Department of Criminal Justice and Criminology (http://www.shsu.edu/academics/criminal-justice-old/departments/criminal-justice-and-criminology/)

About

Be a part of one of the highest ranked Criminal Justice and Criminology programs in the nation! Sam Houston State University's Department of Criminal Justice and Criminology is one of the largest and most prestigious criminal justice programs in the nation.

Our faculty are among the most productive researchers in the country and provide foundational courses you need for careers in criminal justice as well as many related fields. Students can focus on careers in the criminal justice system, including police, corrections, and law. Our goals are to provide a strong foundation for students to not only gain employment after graduation but to also enjoy long and successful careers. Students will also be prepared to earn graduate degrees. In 2020, U.S. News & World Report rated our on-line Master's degree programs #2 in the United States for Criminal Justice. Students can continue their education as a criminal justice researcher by exploring one of our Master's or Ph.D. programs.

You have a bright future at SHSU! The opportunities in our department are endless, with flexible course offerings to fit your schedule:

- Recruiters from criminal justice agencies and organizations visit the center on a regular basis.
- Students receive real world experience by participating in agency tours, internships, and regional/national conferences.
- Courses are offered on-line, daytime, and in the evening.

Mission

The Department of Criminal Justice and Criminology is committed to conducting high quality research that will enhance the knowledge base among our student population, criminal justice agencies throughout the country and abroad, as well as the broader discipline. Student competencies are guided by an increased understanding of the role of criminal justice professionals, and research that underlies effective policy and practice. The Department is strongly committed to the provision of public service through applied research and related efforts with criminal justice agencies and community organizations.

Suggested Minors

- Communication Studies
- Computer Science
- Criminal Justice Equity and Inclusion
- Crime Analysis and Mapping
- Foreign Language
- Forensic Science
- General Business
- Information Assurance
- Psychology
- Sociology
- Security Studies

Career Opportunities

- Police Agencies - Federal, State, County, Municipal
- Correctional Agencies - Jails, Prisons
- Crime Analyst
- Immigration/Customs Enforcement
- Border Patrol
- Drug Enforcement
- Probation
- Parole
- Family/Child Protective Services

- Correctional Advisor/Counselor
- Game Warden
- Military Police and Intelligence
- Higher Education (Professor)

Curriculum

Sam Houston State University is authorized by the Texas Higher Education Coordinating Board to offer a Bachelor of Arts degree and a Bachelor of Science degree with a major in Criminal Justice. Coursework for these degrees is offered in the Department of Criminal Justice and Criminology. The prefix designation for registration purposes is "CRIJ".

Program Specific Requirements

Please see the individual degree plans for degree specific requirements.

Code	Title	Hours
Criminal Justice Core		
CRIJ 2361	Introduction To The Criminal Justice System	3
CRIJ 2362	Criminology	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 2365	Correctional Systems and Practice	3
CRIJ 2367	Police Systems & Practices	3
CRIJ 3378	Introduction To Methods Of Research	3
CRIJ 4385	Criminal Justice and Social Diversity	3
VCST 3350	Victimology	3
Total Hours		**24**

Code	Title	Hours
Major (no Minor)		
Core Courses		24
Criminal Justice Advanced Electives		21
Total Hours		**45**

Code	Title	Hours
Major (With Approved Minor in Another Field)		
Core Courses		24
Criminal Justice Electives		12-15
Minor		18
Total Hours		**54-57**

- Bachelor of Applied Arts and Sciences: Criminal Justice Concentration (p. 930)
- Bachelor of Arts, Major in Criminal Justice (p. 442)
- Bachelor of Science, Major in Criminal Justice (p. 444)
- Bachelor of Science: Major in Integrated Studies: Law, Ethics, and Society Concentration (p. 760)
- Undergraduate Certificate in Crime Analysis and Mapping (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/environmental-geosciences/undergraduate-certificate-crime-analysis-and-mapping/)
- Undergraduate Certificate in Criminal Justice (p. 447)
- Undergraduate Certificate in Criminal Justice and Social Identity (p. 449)
- Undergraduate Certificate in Management and Leadership in Criminal Justice (p. 435)
- Minor in Crime Analysis and Mapping (p. 1093)
- Minor in Criminal Justice (p. 450)
- Minor in Criminal Justice and Social Identity (p. 450)

Student Organizations and Activities

- Alpha Phi Sigma National Criminal Justice Honor Society
- Lambda Alpha Epsilon Criminal Justice Association

- National Association of Blacks in Criminal Justice
- National Organization of Hispanics in Criminal Justice
- Phi Alpha Delta Pre-Law Society

Attend some of the many events for students including special guest lecturers at Real Talk with CJ, a career fair, an undergraduate conference, and mock courtroom trials.

Internships

An integral part of all degree offerings is the opportunity for field placement experience. The College of Criminal Justice Internship Program (http://www.shsu.edu/academics/criminal-justice/services/intern.html) is designed to provide students valuable work experience, on-the-job training, and an opportunity to develop a professional networking base for the future. Students in this program are offered unparalleled opportunities to participate in one of the nation's leading internship programs in the field of criminal justice.

Scholarships

Scholarships are available to criminal justice majors and awarded in the spring of each year at the College of Criminal Justice Honors Convocation for the following academic year. With the exception of incoming freshmen scholarships, a student must have completed at least one long semester at Sam Houston State University. Information on specific scholarships available in the College of Criminal Justice are available through Jackie Chavarria at (936) 294-3755.

Director/Chair: **Jason R Ingram**

George Matthew Ackerman, PHD (gma017@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Capella University; JD, Nova Southeastern University; MS, Nova Southeastern University; MBA, Nova Southeastern University; BA, Florida-Atlantic U

Heather Ann Alaniz, PHD (haa034@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Texas Southern University; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Mehmet Arican, PHD (mxa146@shsu.edu), *Lecturer of Criminal Justice & Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Leicester; MA, Univ of Leicester; BA, Univ of Istanbul

Andia B Azimi, PHD (axa205@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BS, Georgia State University

Diana Villarreal Barfield, EDD (dxb072@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, EDD, Abilene Christian University; MA, Abilene Christian University; BS, Mountain State University

Timothy Barnum, PHD (txb073@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Saint Ambrose; BA, Valparaiso University

Sean James Blinn, MA (sjb094@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MA, Penn State University; MS, Univ of Scranton; BA, The King's College; BA, The King's College; DCJ, California Un of Pa

Danielle Lynne Boisvert, PHD (dxb014@shsu.edu), *Professor of Criminal Justice and Criminology; Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MFS, George Washington University; BS, University of Western Ontario

Mark A Bull, MS (mab028@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Eric J Connolly, PHD (ejc025@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Univ of North Alabama; BA, West Virginia University

Jay O Coons, PHD (stdjoc12@shsu.edu), *Assistant Professor of Practice of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Sam Houston State University; BS, Sam Houston State University

GM Cox, PHD (gmc037@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas-Arlington; MS, Sam Houston State University; BS, Sam Houston State University

Miltonette Olivia Craig, PHD (moc006@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; JD, Georgia State University; MS, Florida Int'L Univ; BA, Spelman College; BA, Spelman College

Jane C Daquin, PHD (jxd161@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BA, University of Albany, Suny; BA, University of Albany, Suny

Mark Vincent Denham, MS (mvd001@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Univ of Southern Mississippi

Jeremy Tyler Dunman, JD (jtd029@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, South Texas College of Law; MS, Sam Houston State University; BS, Texas A&M University

Ashley Kay Fansher, PHD (afansher@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University

Michael V Ferguson, MS (mvf002@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, Stephen F Austin University

Edward F Gallagher, JD (exg206@shsu.edu), *Assistant Professor of Practice for Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, Villanova University; MA, Univ of St Thomas; BA, Indiana University; BA, Indiana University

Randall L Garner, PHD (rgarner@shsu.edu), *Professor of Criminal Justice and Criminology and Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Houston-Main; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Jurg Gerber, PHD (icc_jxg@shsu.edu), *Professor Emeritus of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Eastern Washington University

Amber Dawn Griffin, PHD (adgriffin@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Arizona State University; BA, Univ of Wisconsin-La Crosse; BA, Univ of Wisconsin-La Crosse

Elizabeth Noel Hartsell, PHD (enh033@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Florida; MA, Univ of Florida; BA, North Carolina State Univ

Shaina Marie Herman, PHD (sxh169@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, University of Albany, Suny; MA, University of Albany, Suny; BA, Indiana Univ of Pa

Susan Jeanette Hoppe, PHD (sjh008@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MA, Sam Houston State University; BSCJ, Sam Houston State University

Billy S Humphrey, MS (icc_bsh@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Lane A Hurst, MS (lah005@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BSCJ, Sam Houston State University

Laura Theresa Iesue, PHD (lti002@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Miami; MA, New Mexico State University; BS, Ohio State University

Jason R Ingram, PHD (jri004@shsu.edu), *Professor and Chair of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MA, Southern Illinois U-Carbondale; BA, Southern Illinois U-Carbondale

Soraya K Kawucha, PHD (skk003@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Univ of North Texas; BS, Univ of North Texas

Bit Na Kim, PHD (bitna.kim@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MA, Chungbuk National University; BA, Chungbuk National University

Darla Renee King, MS (drk013@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, Univ of North Texas

Alexander Boone Kinney, PHD (akinney@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Arizona; MA, Univ of Arizona; BA, Penn State University

Stuti Subbaiah Kokkalera, PHD (sxk078@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Northeastern University; LLM, Georgetown University; LLB, Gujarat University

Diana Oliphant Kukua, MS (dxk009@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, Sam Houston State University

Albert Bakarr Lansana, MS (abl027@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Univ of Detroit; MA, Univ of Detroit; BS, Eastern Michigan University

Wanda Edelis Leal, PHD (wel004@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BS, Florida State University

Heejin Lee, PHD (heejin.lee@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; LLB, Korean National Police Univers

Peter Scott Lehmann, PHD (psl003@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Furman University

Rector Bill Livingston, MS (rbl003@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Texas A&M University

Kevin Paul Lunsford, MS (kpl003@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Phillip Mitchell Lyons, PHD (icc_pml@shsu.edu), *Professor of Security Studies; Dean, College of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Lincoln; JD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BS, Univ of Houston-Clear Lake

Melissa Lee Meltzer, PHD (melissa.meltzer@shsu.edu), *Assistant Professor of Practice in Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Pennsylvania; MPH, Univ of Tx Health Science Cntr; MA, Sam Houston State University; BS, Univ of Houston-Main

Holly A Miller, PHD (psy_ham@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MA, Morehead State University; BA, Bethel College

Martin Morales, MCJ (mxm471@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MCJ, Tarleton State University; BAAS, Tarleton State University

Stephen Lee Morrison, PHD (sxm130@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Southern Mississippi; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Benjamin Michael Muraida, MS (bmm120@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Purdue University Global; BS, Purdue University Global

Chelsey Samara Narvey, PHD (cxn042@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; BA, Concordia University

John Charles Navarro, PHD (jxn044@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Louisville; MS, Illinois State University; BS, Illinois State University

Brooke Elizatbeth Nodeland, PHD (ben012@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of North Texas; BS, Univ of North Texas

Michael Edwin Noyes, PHD (men014@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Allegheny College

Willard M Oliver, PHD (icc_wmo@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, West Virginia University; MA, West Virginia University; MS, Radford University; BS, Radford University

Erin Anderson Orrick, PHD (eorrick@shsu.edu), *Professor and Associate Dean of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MA, Univ of Maryland-College Park; BSCJ, Texas Christian University

Katherine Cabaniss Parsley, JD (kcp033@shsu.edu), *Assistant Professor of Practice for Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, Pepperdine Univ; BS, Pepperdine Univ

Rebecca Ann Price, MS (stdrap18@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Javier Ramos, PHD (jxr248@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Univ of Texas At Austin

Ryan Wayne Randa, PHD (rxr042@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; BS, Univ of Wisconsin-Superior

Carl Allen Root, PHD (cxr116@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of South Florida; MS, Eastern Kentucky University; BA, Eastern Kentucky University; BA, Eastern Kentucky University; BA, Eastern Kentucky University

Mitchel P Roth, PHD (icc_mpr@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Santa Barbara; MA, Univ of Calif-Santa Barbara; BA, Univ of Maryland-College Park

Danielle Sheldon Rudes, PHD (drudes@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; MA, Univ of New Orleans; BA, Suny At Plattsburgh

Mark Christopher Saber, PHD (marksaber@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; MA, Univ of Texas-Arlington; BA, Univ of Texas-Arlington

Andrea Sanchez, MSW (axs075@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MSW, Univ of Houston-Main; BA, Univ of Texas At Austin

Bennie Lee Schiro, JD (bls025@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, Oklahoma City Univ; BSCJ, Sam Houston State University

Paul Bradley Smithers, MS (pbs007@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Univ of Houston-Downtown

David Leon Tumlinson, MS (dlt013@shsu.edu), *Lecturer of Criminal Justice & Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, St Mary's University

Michael Scott Vaughn, PHD (msv002@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, University of Central Missouri; BS, University of Central Missouri

Sergio A Velasquez, MED (sav041@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MED, Univ of Texas-Brownsville; BS, Univ of Texas-Brownsville; BS, Univ of Texas-Brownsville

Thomas Ray Warren, MS (trw002@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Rita J Watkins, EDD (icc_rjw@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, EDD, Sam Houston State University; MA, Sam Houston State University; MPA, Texas A&M University; BS, Sam Houston State University

Laura Marlise Weaver, MA (lmw083@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MA, Univ of Texas-Arlington; BA, Univ of Texas-Arlington

William M Wells, PHD (wmw005@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Indiana University-Bloomington; BA, Ohio University

Brent Young Wilson, MS (byw002@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Russell Lee Young, PHD (stdrly@shsu.edu), *Assistant Professor of Practice of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Arkansas Tech University; MA, Sam Houston State University; BS, Sam Houston State University

Yan Zhang, PHD (icc_yxz@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MS, Michigan State University; MS, Michigan State University; BS, Wuhan University

Jihong Zhao, PHD (jxz006@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Shanghai Inst of Higher Edu

Bachelor of Arts, Major in Criminal Justice

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-criminal-justice/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Criminal Justice		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
Select one of the following:		3-4
STAT 3379	Statistical Methods in Practice	
or MATH 3379	Statistical Methods in Practice	
or PSYC 3402	Psychological Statistics	
or SOCI 3345	Social Statistics	
Foreign Language [2]		14
Major: Foundation		
CRIJ 2361	Introduction To The Criminal Justice System [3]	3
CRIJ 2362	Criminology [4]	3
CRIJ 2364	Fundamentals Of Criminal Law [5]	3
CRIJ 2365	Correctional Systems and Practice [5]	3
CRIJ 2367	Police Systems & Practices [5]	3
CRIJ 3378	Introduction To Methods Of Research [6]	3
CRIJ 4385	Criminal Justice and Social Diversity (Senior standing is required) [7]	3
VCST 3350	Victimology [7]	3
Major: Prescribed Electives		
CRIJ Advanced Electives		21
Electives: General		
General Electives		16
Electives: Advanced General		
Advanced Electives		6
Minor: Not Required [8, 9]		
Total Hours		**120-121**

1. Recommend MATH 1342 or MATH 1332.
2. WOLC 2311 and WOLC 2312 satisfy the requirement for Component Area IV (Language, Philosophy, and Culture) as well as three hours of Component Area IX (Component Area Option).
3. CRIJ 2361 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).
4. May be completed either Fall or Spring semester of Year 1.
5. May be completed either Fall or Spring semester of Year 2.
6. May be completed either Fall or Spring semester of Year 3.
7. May be completed either Fall or Spring semester of Year 4.
8. A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
9. All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-criminal-justice/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	Component Area II (p. 89)[5]	3
CRIJ 2361[1]	3	CRIJ 2362[6]	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	13		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
CRIJ 2364[7]	3	Component Area V (p. 90)	3
CRIJ 2365[7]	3	CRIJ 2367[7]	3
Foreign Language [8]	4	Foreign Language [8]	4
General Electives	3		
	17		**14**

Third Year

Fall	Hours	Spring	Hours
CRIJ Advanced Electives	6	Advanced Electives	3
CRIJ 3378[9]	3	CRIJ Advanced Electives	6
ENGL 3330	3	Foreign Language [8]	3
Foreign Language [8]	3	General Electives	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
CRIJ 4385 (Senior standing is required)[10]	3	Advanced Electives	3
CRIJ Advanced Electives	6	CRIJ Advanced Electives	3
General Electives	5	General Electives	5
STAT 3379, MATH 3379, PSYC 3402, or SOCI 3345	3-4	VCST 3350[10]	3
	17-18		**14**

Total Hours: 120-121

1 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 Recommend MATH 1342 or MATH 1332.
6 May be completed either Fall or Spring semester of Year 1.
7 May be completed either Fall or Spring semester of Year 2.

[8] WOLC 2311 and WOLC 2312 satisfy the requirement for Component Area IV (Language, Philosophy, and Culture) as well as three hours of Component Area IX (Component Area Option).
[9] May be completed either Fall or Spring semester of Year 3.
[10] May be completed either Fall or Spring semester of Year 4.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Criminal Justice is designed to provide graduates with the following marketable skills:

- Critical thinking.
- Written and oral communication.
- Analytical research.
- Proactive and action-oriented.

Bachelor of Science, Major in Criminal Justice

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-criminal-justice/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Criminal Justice		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
STAT/MATH 3379	Statistical Methods in Practice	3-4
or PSYC 3402	Psychological Statistics	
or SOCI 3345	Social Statistics	
Degree Specific Courses [3]		**15**
Major: Foundation		

CRIJ 2361	Introduction To The Criminal Justice System [2]	3
CRIJ 2362	Criminology [4]	3
CRIJ 2364	Fundamentals Of Criminal Law [4]	3
CRIJ 2365	Correctional Systems and Practice [5]	3
CRIJ 2367	Police Systems & Practices [5]	3
CRIJ 3378	Introduction To Methods Of Research [6]	3
CRIJ 4385	Criminal Justice and Social Diversity (Senior standing is required) [6]	3
VCST 3350	Victimology	3
Major: Prescribed Electives		
CRIJ Advanced Electives		21
Electives: General		
General Electives		9
General Electives (Advanced)		6
Minor: Not Required [7, 8]		
Total Hours		**120-121**

Code	Title	Hours
Degree Specific Courses [3]		**15**
Select five from the following:		
COMS 3370	Intercultural Communication	
COMS 3371	Conflict, Negotiation, and Resolution	
COMS 4366	Deceptive Communication	
ECON 2300	Introduction To Economics	
PHIL 2303	Critical Thinking	
PHIL 3365	Modern Philosophy [6]	
POLS 2306	Texas Government	
POLS 3393	Social Policy	
PSYC 1301	Introduction To Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 3383	Psychology And The Law [6]	
SOCI 1301	Introduction to Sociology	
SOCI 3324	Social Inequality	

1 MATH 1342 or MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 See the Degree Specific Courses list.
4 May be completed during Fall or Spring semester of Year 1.
5 May be completed during Fall or Spring semester of Year 2
6 May be completed during Fall or Spring semester of Year 3.
7 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
8 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. The minimum number of semester hours in residence is 30 semester hours, of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-criminal-justice/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	Component Area II (p. 89)[5]	3
CRIJ 2361[1]	3	Component Area V (p. 90)	3
CRIJ 2364[2]	3	CRIJ 2362[2]	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
	13		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IV (p. 89)	3	Component Area IX (p. 91)	3
CRIJ 2365[6]	3	CRIJ 2367[6]	3
Degree Specific Courses[7]	3	Degree Specific Courses[7]	3
POLS 2305[8]	3	POLS 2306[8]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
CRIJ 3378[9]	3	CRIJ Advanced Electives	6
CRIJ Advanced Electives	6	Degree Specific Courses[7]	6
Degree Specific Courses[7]	3	VCST 3350	3
ENGL 3330	3		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
CRIJ 4385[9]	3	General Advanced Electives	6
CRIJ Advanced Electives	6	CRIJ Advanced Electives	3
General Electives	3	General Electives	6
STAT 3379, MATH 3379, PSYC 3402, or SOCI 3345	3-4		
	15-16		**15**

Total Hours: 120-121

Code	Title	Hours
Degree Specific Courses [7]		**15**
Select five from the following:		
COMS 3370	Intercultural Communication	
COMS 3371	Conflict, Negotiation, and Resolution	
COMS 4366	Deceptive Communication	
ECON 2300	Introduction To Economics	
PHIL 2303	Critical Thinking	
PHIL 3365	Modern Philosophy [9]	
POLS 2306	Texas Government	
POLS 3393	Social Policy	
PSYC 1301	Introduction To Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 3383	Psychology And The Law [9]	
SOCI 1301	Introduction to Sociology	
SOCI 3324	Social Inequality	

[1] Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 May be completed during Fall or Spring semester of Year 1.
3 Satisfies Core Curriculum requirement for Component Area I (Communication).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 MATH 1342 or MATH 1332 is recommended.
6 May be completed during Fall or Spring semester of Year 2.
7 See the Degree Specific Courses list.
8 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government.
9 May be completed during Fall or Spring semester of Year 3.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. The minimum number of semester hours in residence is 30 semester hours, of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Criminal Justice is designed to provide graduates with the following marketable skills:

- Critical thinking.
- Written and oral communication.
- Analytical research.
- Proactive and action-oriented.

Undergraduate Certificate in Criminal Justice

This Criminal Justice Undergraduate Certificate program builds on a proven track record of success in preparing students for the complexities of law enforcement careers. This 15 credit hour program acknowledges the evolving demands of the criminal justice sector, ensuring recipients are not only well-equipped for today's challenges but are also adaptable to tomorrow's. It represents a strategic investment for those seeking to build upon a tradition of excellence in law enforcement.

Code	Title	Hours
Undergraduate Certificate in Criminal Justice		
Required Courses		
CRIJ 2361	Introduction To The Criminal Justice System	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 2365	Correctional Systems and Practice	3
CRIJ 2367	Police Systems & Practices	3
Prescribed Electives		
Select one course from the following:		3
CRIJ 2362	Criminology	
CRIJ 2394	Courts And Criminal Procedure	
CRIJ 4365	Professionalism and Ethics In Criminal Justice	
Total Hours		**15**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Criminal Justice is designed to provide graduates with the following marketable skills:

- Critical thinking and evidence-based analysis of crime and criminal justice activities.
- Effective communication in legal and law enforcement contexts, both internally and to community stakeholders.
- Strategic decision-making for law enforcement resource allocation.
- Proactivity and initiative in crime prevention and community relations.

Undergraduate Certificate in Criminal Justice and Social Identity

The Undergraduate Certificate in Criminal Justice and Social Identity is a 12-credit-hour program developed for criminal justice working professionals as well as current students who plan to work in the field. Upon completion, graduates will be able to successfully recognize how issues of social identity apply to criminal justice professionals' interactions with offenders, victims, and the general public as well as how these issues affect workforce-related matters in criminal justice.

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Code	Title	Hours
Undergraduate Certificate in Criminal Justice and Social Identity		
Required Courses		
CRIJ 3340	Gender and Crime	3
CRIJ 4336	Understanding Human Behavior	3
CRIJ 4385	Criminal Justice and Social Diversity	3
CRIJ 4387	Multiculturalism in Criminal Justice	3
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Criminal Justice and Social Identity is designed to provide graduates with the following marketable skills:

- Understand contemporary issues about social identity in the criminal justice system.
- Identify and address issues of social identity amongst criminal justice working professionals as well as those involved in the criminal justice system.
- Effectively use information about self-relevant identities and behaviors to facilitate strong communication skills between criminal justice working professionals.

Minor in Criminal Justice

A Minor in Criminal Justice consists of the following courses:

Code	Title	Hours
Minor in Criminal Justice		
Required Courses		
CRIJ 2361	Introduction To The Criminal Justice System	3
CRIJ 2362	Criminology	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 4385	Criminal Justice and Social Diversity	3
CRIJ Advanced Elective		6
Total Hours		**18**

Minor in Criminal Justice and Social Identity

A Minor in Criminal Justice and Social Identity consists of the following courses:

Code	Title	Hours
Minor in Criminal Justice and Social Identity		
Required Courses		
CRIJ 4336	Understanding Human Behavior [1]	3
CRIJ 4385	Criminal Justice and Social Diversity	3
CRIJ 4387	Multiculturalism in Criminal Justice	3
Prescribed Elective Courses		
Select three courses from the following:		9
CRIJ 3340	Gender and Crime [1]	
COMS 3371	Conflict, Negotiation, and Resolution	
POLS 3335	Political Ethnic Minorities and Gender [1]	
SOCI 2319	Introduction To Ethnic Studies	
SOCI 3324	Social Inequality	
SOCI 3325	Gender And Inequality [1]	
SOCI 3355	Racial and Ethnic Inequality [1]	
VCST 3341	Aging, Crime and Victimization [1]	
VCST 3350	Victimology	
Total Hours		**18**

[1] This course requires a prerequisite, which could increase the total number of semester credit hours needed to complete the minor.

Department of Forensic Science

Chair: Sheree Hughes (sheree.hughes@shsu.edu), Ph.D.
(936)-294-2608

Website: Department of Forensic Science (http://forensics.shsu.edu/)

Mission

Our mission is to foster the principles and enhance the practice of forensic science through exceptional education, pioneering research, professional development, and dedicated service. We aim to prepare students for successful careers in forensic science, advancing the field through innovation, research, and service to the forensic science community.

Vision

The Department of Forensic Science at SHSU envisions to be a global leader in forensic science education, research, and training, recognized for our collaborative and multidisciplinary approach. By fostering innovation and partnering with industry to drive improvement and ethical practice, we will equip our students with the knowledge, skills, and abilities that are fundamental for scientific problem solving and necessary to contribute significantly to the forensic science community and the criminal justice system.

About

The College of Criminal Justice's Department of Forensic Science is rich in history yet heavily geared toward the future. The Department of Forensic Science at SHSU was the first to offer an accredited Master of Science in Forensic Science (https://www.shsu.edu/programs/graduate/forensic-science/) in Texas and the first multi-disciplinary PhD in Forensic Science (https://www.shsu.edu/programs/doctorate/forensic-science/) in the United States.

Graduates from our MS and PhD programs have placement rates consistently over 90% in forensic science laboratories and research positions across the nation. Students have access to the latest scientific equipment found in crime laboratories and engage with faculty who have real-word experience in forensics. The College of Criminal Justice also operates the Southeast Texas Applied Forensic Science Facility (https://www.shsu.edu/centers/stafs/) (STAFS) - one of a small number of willed body donor facilities in the nation, and the Institute for Forensic Research, Training and Innovation (http://www.ifrti.org/) (IFRTI), which offers professional development and unique, industry-driven research opportunities to students, practitioners, and the broader forensic community.

From the laboratory to the courtroom and everything in between, the Department of Forensic Science has the tools you need to build a career in forensic science.

Academic Programs

The Department of Forensic Science offers a minor, a master's degree, and a doctoral degree. For a listing of the programs offered within the Department of Forensic Science, please, reference the Programs tab in the respective catalog.

Highlights

The Master of Science in Forensic Science is accredited by the Forensic Science Education Programs Accreditation Commission (FEPAC (http://fepac-edu.org/)). The program itself was established in 2001 and was the very first accredited program in Texas. This **full-time, face-to-face** program gives students the flexibility to tailor a degree toward their individual interests and professional goals while working in a state-of-the art scientific facility. We have been preparing students for careers in forensic science for over two decades, with proven success.

Sam Houston State University offers a PhD in Forensic Science for those seeking leadership positions or intending to pursue careers in research or education. The doctoral program at SHSU is an interdisciplinary science degree designed for **full-time, face-to-face** study, typically completed in about five years.

The **online** minor in Forensic Science can be tailored towards criminal justice or non-science majors interested in pursuing investigative or non-laboratory based careers in forensic science (e.g., crime scene investigators) and science majors (e.g., chemistry, biology, etc.) who have an interest in traditional (laboratory-based) careers in forensic science.

Career Opportunities

Students intending to pursue a career as a forensic scientist should major in one of the natural sciences. The minor in forensic science pairs well with natural science majors and can help prepare students for mandatory licensing requirements (https://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC/?tac_view=5&ti=37&pt=15&ch=651&sch=C&rl=Y) in the State of Texas. Discipline specific course requirements (https://www.txcourts.gov/media/1446490/license-requirements-doc.pdf) still apply. For more information on licensing requirements, visit the Department of Forensic Science website or the Texas Forensic Science Commission (https://www.txcourts.gov/fsc/). Although non-science majors may be eligible for investigative careers, the minor in forensic science does not supplant the need for foundational scientific knowledge required to pursue traditional

(laboratory-based) forensic disciplines. **Criminal justice or other non-science majors are not eligible to apply for the MS or PhD in forensic science and are extremely unlikely to be eligible for employment as a forensic scientist.**

- Undergraduate Certificate in Investigative Forensic Science (p. 453)
- Minor in Forensic Science (p. 454)

Student Organizations and Activities

- Society of Forensic Science

Scholarships

Information on specific scholarships available in the College of Criminal Justice are available through Scholarships4Kats (https://www.shsu.edu/dept/financial-aid/aid/scholarships/).

Director/Chair: **Sheree Robyn Hughes**

Kelsie Dawn Bryand, MS (kds001@shsu.edu), *Adjunct Faculty*, *Department of Forensic Science*, MS, Sam Houston State University; BA, Texas A&M University

Patrick Buzzini, PHD (patrick.buzzini@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Lausanne; MS, University of Lausanne

Jay Tyler Davidson, PHD (jxd115@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, West Virginia University; MS, West Virginia University; BS, Shippensburg University

Eduardo Geraldo de Campos, PHD (exg248@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Sao Paulo; MS, University of Sao Paulo; BS, University of Sao Paulo

Rachel Michelle Houston, PHD (rmh034@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Univ of Texas At Dallas

Sheree Robyn Hughes, PHD (sxh039@shsu.edu), *Professor and Chair of Forensic Science*, *Department of Forensic Science*, PHD, Bond University; BS, University of Queensland (The)

Timothy S. Kalafut, PHD (tim.kalafut@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Texas A&M University; BA, Whitworth College

Andra Danielle Lewis-Krick, PHD (adl054@shsu.edu), *Lecturer of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; MS, Univ of New Haven; BS, California St Un-Long Beach; BS, California St Un-Long Beach

Mayra Alexandra Mayr-Eduardoff, PHD (mayra.eduardoff@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Medical University of Innsbruck; MSC, University of Innsbruck; BA, University of Sussex (UK)

Geraldine Isabelle Christ Monjardez, PHD (g.monjardez@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Manchester; MS, Cranfield University; BS, University of Cent Lancashire

Britni Nicole Skillman, PHD (bns017@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Sam Houston State University

Jennifer Leigh Snedeker, BS (jls191@shsu.edu), *Post Doctoral Fellow of Forensic Science*, *Department of Forensic Science*, BS, Michigan State University

Madeleine Jean Swortwood, PHD (mjs079@shsu.edu), *Lecturer of Forensic Science*, *Department of Forensic Science*, PHD, Florida Int'L Univ; BA, Duquesne University

Chi Chung Yu, PHD (jornyu@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, Carleton University; MS, Central Police University; BS, Central Police University

Undergraduate Certificate in Investigative Forensic Science

This 15 credit hour certificate program builds upon the current undergraduate offerings, comprising five required classes tailored for students aspiring to pursue careers in investigative forensic sciences (crime scene investigator, medical death investigator, criminal investigators, evidence technician, law enforcement, etc.). The undergraduate certificate is a freestanding credential that can be earned as a stand-alone certificate or awarded on the way toward a bachelor's degree.

Code	Title	Hours
Undergraduate Certificate in Investigative Forensic Science		
Required Courses		
FORS 3366	Forensic Science	3
FORS 4310	Physical Evidence Techniques	3
FORS 4330	Fingerprint Examination	3
FORS 4364	Crime Scene Investigation Techniques	3
FORS 4380	Ethics and Professional Practice	3
Total Hours		**15**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

There are no program-specific admission requirements. Students must meet SHSU's general admission standards:

- Completed SHSU Admission Application (https://www.shsu.edu/apply/) with non-refundable $50.00 application fee.
- Official ACT Composite or SAT score report. (Optional)
- Official high school transcript showing GPA and degree plan. Upon graduation from high school, applicant must provide a final official high school transcript with final GPA, date of graduation, and graduation plan.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Investigative Forensic Science is designed to provide graduates with the following marketable skills:

- Scientific literacy and technical knowledge in investigative forensic science.
- Crime scene assessment and evidence recognition.
- Physical evidence identification and chain of custody management.
- Fingerprint examination.
- Legal and ethical awareness in forensic investigations.

Minor in Forensic Science

A minor in Forensic Science requires the completion of 18 credit hours from the following list of courses, of which at least six credits must be 4000-level courses.

This minor is most suitably paired with majors in biology, chemistry, forensic chemistry, computing science, nursing, psychology, or criminal justice. However, the minor is not limited to these majors. **Students who intend to pursue employment as a forensic scientist should major in natural science**. Non-science majors (e.g., criminal justice) can benefit from this minor if they intend to pursue employment as an investigator. The minor in forensic science does not supplant the need for an undergraduate degree in a natural science (e.g., chemistry, biology, etc.).

The State of Texas has mandatory licensing requirements (https://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC/?tac_view=5&ti=37&pt=15&ch=651&sch=C&rl=Y) for forensic analysts and technicians. These requirements include minimum educational qualifications, specific coursework, and successful completion of an examination administered by the Texas Forensic Science Commission. Students intending to pursue careers subject to forensic licensing requirements are encouraged to enroll in FORS 3366, FORS 4310, FORS 4380, and FORS 4317. Discipline specific course requirements still apply. Refer to the Texas Administrative Code (https://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC/?tac_view=5&ti=37&pt=15&ch=651&sch=C&rl=Y) for the most up to date information, or contact the Department of Forensic Science for assistance.

Code	Title	Hours
Minor in Forensic Science		
Select six of the following:		18
CRIJ 2368	Criminal Investigation	
CRIJ 2394	Courts And Criminal Procedure	
FORS 3366	Forensic Science	
FORS 3380	Introduction to Forensic Chemistry	
FORS 4310	Physical Evidence Techniques	
FORS 4317	Applied Statistics for Forensic Science	
FORS 4320	Fundamentals of Forensic Biology	
FORS 4330	Fingerprint Examination	
FORS 4364	Crime Scene Investigation Techniques	
FORS 4380	Ethics and Professional Practice	
Total Hours		**18**

Department of Security Studies

About

Chair: Nadav Morag, Ph.D. (morag@shsu.edu)

Contact Information: (936) 294-4128; Vivian Carlson (vxc003@shsu.edu)

Website: Department of Security Studies (http://www.shsu.edu/academics/criminal-justice/departments/security-studies/)

Mission

Homeland Security (HS) is an emerging and evolving discipline that continues to have a significant impact on the public and private sectors. Terrorism, natural disasters, cyber-attacks against critical infrastructures, public health emergencies, and large-scale organized crime, and similar issues all present challenges in terms of the ability of society, the economy, and the government to function when such events occur. Moreover, despite the fact that these are very different types of threats, they will require many of the same tools in order to cope with them. For example, prevention of terrorism and prevention of cyber-attacks require that law enforcement and intelligence agencies cooperate, share information, and design integrated strategies to track down and apprehend such threats domestically (or in concert with the military when the threat is based overseas). Similarly, critical infrastructure targets and industries must share information and engage in joint planning across their respective industries, with governmental authorities. This same type of information-sharing and joint planning is important in preparing for, and responding to, natural disasters such as Hurricane Harvey and environmental disasters such as Deepwater Horizon. Another example of the importance of information-sharing and strategic integration can be found in the interplay between law enforcement, fire, civil defense, emergency medical services, hospitals, and the public health system. These must share information, train together and integrate their strategies because they will all be brought into play, not only in the event of terrorism (with the public health system being a key part of the picture in chemical, biological, or nuclear terrorism scenarios), but also in the case of natural disasters, disease outbreak, and other crisis scenarios. Additionally, the strategic integration, information-sharing, and common planning mentioned in the examples above must not only be horizontal across practitioner areas, but also vertical in bringing together federal, state, local, tribal, territorial, and international partners, as well as the all-important private sector (which, as noted, plays a key role in critical infrastructure protection but is also crucial for disaster response and recovery).

The Bachelor's of Science and Bachelor's of Arts programs are designed to provide students with a broad overview of the homeland security field and allow them to develop basic knowledge and competency in a wide range of areas within the larger discipline. Accordingly, the program will help students:

- Examine the phenomena of terrorism and counterterrorism.
- Comprehend the role of emergency management in the homeland security enterprise.
- Apply intelligence approaches and methodologies to understand homeland security challenges.
- Discuss the role of critical infrastructures in homeland security.
- Interpret legal and ethical issues in the homeland security context.
- Identify strategic planning and communications challenges and tools.
- Recognize transportation and border security challenges and policy options.
- Identify key public health challenges and methods of operation in the homeland security context.
- Understand the role of interoperability, information-sharing, and multi-agency coordination within the homeland security enterprise.

Upon completion of this program, students will be able to:

- Gather and assess data in support of policy measures in homeland security-related agencies or private sector entities engaged in some aspect of homeland security.
- Produce effective written products in support of policy measures in homeland security-related agencies or private sector entities engaged in some aspect of homeland security.
- Apply a broad homeland security knowledge base to enhancing communication and coordination between governmental agencies and between governmental agencies and the private sector.

The program can be completed 100% online. Students will also have the option to take some courses face-to-face at the university's main campus.

- Bachelor of Arts in Homeland Security Studies (p. 457)
- Bachelor of Science in Homeland Security Studies (p. 460)
- Undergraduate Certificate in Biosecurity and Pandemics (p. 464)
- Undergraduate Certificate in Security and Resilience in the Chemical and Energy Sectors (p. 465)
- Undergraduate Certificate in Security and Resilience in the Healthcare Sector (p. 466)
- Undergraduate Certificate in Security and Resilience in the Transportation Sector (p. 467)
- Minor in Homeland Security Studies (p. 468)

Student Organizations and Activities

- Order of the Sword & Shield National Honor Society

The College of Criminal Justice hosts a variety of events for students, including special guest lecturers at Real Talk with CJ, a career fair, an undergraduate conference, and mock courtroom trials.

Director/Chair: **Nadav Morag**

Jeremiah Ogonda Asaka, PHD (joa012@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Massachusetts-Boston; MA, Univ of Massachusetts-Boston; MS, Ohio University; BSC, Maseno University

Timothy Rodger Bowman, MS (trb061@shsu.edu), *Lecturer-Pool Faculty of Security Studies*, *Department of Security Studies*, MS, Sam Houston State University

Steven Brack, MSM (sxb138@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MSM, U-Houston Downtown; BS, Nova Southeastern University

Laurie L Christensen, MS (llc022@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MS, Sam Houston State University; BS, Univ of Houston-Main

Allen Lea Culver, DBA (alc166@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, DBA, Franklin University; MPS, Penn State University; BS, Franklin University; BS, Urbana College

Darrell Lynn Darnell, MBA (dxd091@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MBA, George Washington University; MGA, Univ of Maryland-Univ Coll; BS, Univ of Maryland-Univ Coll

Magdalena A Denham, EDD (mxm002@shsu.edu), *Professor of Practice of Security Studies*, *Department of Security Studies*, EDD, Sam Houston State University; MA, San Diego St Univ; BA, Univ of San Diego

Eric Stephen Eckel, MSM (ese005@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MSM, U-Houston Downtown; BS, U-Houston Downtown

Donna June Grannan, MA (djg059@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MA, Naval Postgrad Schl; MBA, Wesleyan College; BBA, Texas Christian University

Nathan P Jones, PHD (nxj008@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; BA, Univ of Calif-Berkeley

Eroll Kuhn, PHD (exk026@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of N Carolina-Chapel Hill; MA, Univ of N Carolina-Chapel Hill; BA, Vassar College; BA, Vassar College

Kayed I Lakhia, MS (kxl069@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MS, Massachusetts Inst of Tech

Adam Richard Lee, MBA (arl061@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MBA, Drury University; MS, Sam Houston State University; BA, Drury University; BA, Drury University

Russell P Lundberg, PHD (rxl027@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Pardee Rand Graduate School; MPHIL, Pardee Rand Graduate School; MPP, Univ of Maryland-College Park; BA, Hope College

Nadav Morag, PHD (nxm040@shsu.edu), *Professor and Chair of Security Studies*, *Department of Security Studies*, PHD, Tel Aviv University; MA, Univ of Calif-Los Angeles; BA, Univ of Calif-Los Angeles

David D Stender, MCJ (dxs127@shsu.edu), *Adjunct*, *Department of Security Studies*, MCJ, Boston University

Dominique Tarpey, MA (dxt060@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MA, Naval Postgrad Schl; MA, Univ of Denver; BA, Syracuse University

Beth Inwood Windisch, MA (biw005@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MA, Naval Postgrad Schl; MA, National Defense University; BA, Indiana University

Bachelor of Arts, Major in Homeland Security Studies

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-homeland-security-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Homeland Security Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
Foreign Language [2]		14
Select four of the following:		12
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 2367	Police Systems & Practices	
CRIJ 2368	Criminal Investigation	
CRIJ 2394	Courts And Criminal Procedure	
ECON 2300	Introduction To Economics [3]	
PHIL 2303	Critical Thinking [3]	
SOCI 1301	Introduction to Sociology [3]	
Major: Foundation		
SCST 2363	Introduction to Homeland Security	3
SCST 2364	Homeland Security Research Methods	3
SCST 2365	Introduction to Emergency Management	3
SCST 3380	Law and Ethics in Homeland Security	3
SCST 3393	Public Health in Homeland Security	3
SCST 3394	Global Terrorism & Homeland Security	3
SCST 4363	Homeland Security Intelligence	3
SCST 4365	Border Security	3
SCST 4367	Critical Infrastructure Security	3
SCST 4379	Comparative Homeland Security	3
Major: Prescribed Electives		
Select 8 from the following:		24
SCST 2366	Introduction to Cybersecurity	
SCST 2368	Transportation Security	
SCST 3381	Climate and Security	
SCST 3383	Energy Security	
SCST 3384	Water Security	
SCST 3385	Bioterrorism and Biowarfare Preparedness and Response	
SCST 3386	Health Access and Homeland Security	
SCST 4301	Chemical and Energy Sector Resilience	
SCST 4302	Healthcare Sector Resilience	
SCST 4303	Transportation Sector Resilience	
SCST 4304	Global Health Security	
SCST 4305	Binational Health Challenges	
SCST 4362	United States Security Post 9/11	

SCST 4364	Homeland Security and Emergency Management	
SCST 4368	Technology and Homeland Security	
SCST 4370	Intelligence Analysis	
SCST 4373	Homeland Defense and Civil Support	
SCST 4377	Special Topics in Security Studies	
SCST 4386	Crisis and Risk Communications in HS	
SCST 4387	Strategic Planning for Homeland Sec	
Electives: General		
General Electives		4
Minor: Not Required [4, 5]		
Total Hours		**120**

1 MATH 1342 or MATH 1332 recommended.

2 Semester Credit Hours must be completed in a single Foreign language. In addition, WOLC 2311 and WOLC 2312 satisfy the Core Curriculum requirements for Component Area IV (Language, Philosophy, and Culture) and 3 SCH of Component Area IX (Component Area Option), respectively.

3 If one or more of these courses are taken to fulfill Core Curriculum requirements, degree specific elective courses must be taken to fulfill the Degree Specific Elective course requirement.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-homeland-security-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area V (p. 90)	3
ENGL 1301[2]	3	Component Area IX (p. 91)	1
HSTY 1301[3]	3	ENGL 1302[2]	3
SCST 2363	3	HSTY 1302[3]	3
SCST 2365	3	SCST 2364	3
	15		**13**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Foreign Language [4]	4	Degree Specific Requirements[6]	3
POLS 2305[5]	3	Foreign Language[4]	4
SCST 3394	3	POLS 2306[5]	3
		SCST 4365	3
	14		**17**

Third Year

Fall	Hours	Spring	Hours
Foreign Language [4, 7]	3	Component Area VIII (p. 90)	3
Prescribed Electives [8]	6	Foreign Language [4, 7]	3
SCST 3380	3	Prescribed Electives[8]	6

SCST 3393		3 SCST 4363	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Degree Specific Requirements[6]		3 Degree Specific Requirements[6]	6
General Electives		4 Prescribed Electives[8]	6
Prescribed Electives[8]		6 SCST 4379	3
SCST 4367		3	
	16		**15**

Total Hours: 120

1 MATH 1342 or MATH 1332 recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Semester Credit Hours must be completed in a single Foreign Language.
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 See listing below of Degree Specific Elective courses. If one or more of these courses are taken to fulfill Core Curriculum requirements, degree specific elective courses must be taken to fulfill the Degree Specific Elective course requirement.
7 WOLC 2311 and WOLC 2312 satisfy the Core Curriculum requirements for Component Area IV (Language, Philosophy, and Culture) and 3 SCH of Component Area IX (Component Area Option), respectively.
8 See Prescribed Electives course list below.

Code	Title	Hours
Degree Specific Requirements [6]		
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 2367	Police Systems & Practices	3
CRIJ 2368	Criminal Investigation	3
CRIJ 2394	Courts And Criminal Procedure	3
ECON 2300	Introduction To Economics [1]	3
PHIL 2303	Critical Thinking [1]	3
SOCI 1301	Introduction to Sociology [1]	3

1 If one or more of these courses are taken to fulfill Core Curriculum requirements, degree specific elective courses must be taken to fulfill the Degree Specific Elective course requirement.

Code	Title	Hours
Prescribed Electives [8]		
SCST 2366	Introduction to Cybersecurity	3
SCST 2368	Transportation Security	3
SCST 3381	Climate and Security	3
SCST 3383	Energy Security	3
SCST 3384	Water Security	3
SCST 3385	Bioterrorism and Biowarfare Preparedness and Response	3
SCST 3386	Health Access and Homeland Security	3
SCST 4301	Chemical and Energy Sector Resilience	3
SCST 4302	Healthcare Sector Resilience	3
SCST 4303	Transportation Sector Resilience	3
SCST 4304	Global Health Security	3
SCST 4305	Binational Health Challenges	3
SCST 4362	United States Security Post 9/11	3
SCST 4364	Homeland Security and Emergency Management	3
SCST 4368	Technology and Homeland Security	3
SCST 4370	Intelligence Analysis	3
SCST 4373	Homeland Defense and Civil Support	3

SCST 4377	Special Topics in Security Studies	3
SCST 4386	Crisis and Risk Communications in HS	3
SCST 4387	Strategic Planning for Homeland Sec	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Homeland Security Studies is designed to provide graduates with the following marketable skills:

- Think critically, conduct analysis, derive conclusions based on evidence, and communicate effectively.
- Understand strategic policy-making to address homeland security challenges.
- Understand the interagency environment, the legal frameworks, and the international context in which the homeland security enterprise operates.

Bachelor of Science, Major in Homeland Security Studies

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-homeland-security-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Homeland Security Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Select four of the following:		12
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 2367	Police Systems & Practices	
CRIJ 2368	Criminal Investigation	
CRIJ 2394	Courts And Criminal Procedure	
ECON 2300	Introduction To Economics [2]	
PHIL 2303	Critical Thinking [2]	
SOCI 1301	Introduction to Sociology [2]	
Major: Foundation		
SCST 2363	Introduction to Homeland Security	3
SCST 2364	Homeland Security Research Methods	3
SCST 2365	Introduction to Emergency Management	3

SCST 3380	Law and Ethics in Homeland Security	3
SCST 3393	Public Health in Homeland Security	3
SCST 3394	Global Terrorism & Homeland Security	3
SCST 4363	Homeland Security Intelligence	3
SCST 4365	Border Security	3
SCST 4367	Critical Infrastructure Security	3
SCST 4379	Comparative Homeland Security	3
Major: Prescribed Electives		
Select four of the following:		12
SCST 2366	Introduction to Cybersecurity	
SCST 2368	Transportation Security	
SCST 3381	Climate and Security	
SCST 3383	Energy Security	
SCST 3384	Water Security	
SCST 4301	Chemical and Energy Sector Resilience	
SCST 4302	Healthcare Sector Resilience	
SCST 4303	Transportation Sector Resilience	
SCST 4362	United States Security Post 9/11	
SCST 4364	Homeland Security and Emergency Management	
SCST 4368	Technology and Homeland Security	
SCST 4370	Intelligence Analysis	
SCST 4373	Homeland Defense and Civil Support	
SCST 4377	Special Topics in Security Studies	
SCST 4386	Crisis and Risk Communications in HS	
SCST 4387	Strategic Planning for Homeland Sec	
Electives: General		
General Electives [3]		6
Minor: Not Required		
Minor [4, 5]		18
Total Hours		**120**

1 MATH 1332 or MATH 1342 are recommended.

2 If one or more of these courses are taken to fulfill Core Curriculum requirements, degree specific elective courses must be taken to fulfill the Degree Specific Elective course requirement.

3 Students will need at least 6 SCH of General Electives to meet the 120 total hours minimum required for graduation.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-homeland-security-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Component Area V (p. 90)	3
ENGL 1301[2]		3 Component Area IX (p. 91)	1
HSTY 1301[3]		3 ENGL 1302[2]	3

SCST 2363		3 HSTY 1302[3]	3
SCST 2365		3 SCST 2364	3
	15		**13**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IV (p. 89)		3 Component Area IX (p. 91)	3
Component Area VIII (p. 90)		3 Degree Specific Requirements[5]	3
POLS 2305[4]		3 POLS 2306[4]	3
SCST 3394		3 SCST 4365	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Degree Specific Requirements[5]		3 Degree Specific Requirements[5]	6
Prescribed Electives[6]		6 Prescribed Electives[6]	6
SCST 3380		3 SCST 4363	3
SCST 3393		3	
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
General Electives or Minor[7, 8, 9]		6 General Electives [7]	6
Prescribed Electives or Minor[6, 8, 9]		6 Prescribed Electives or Minor[6, 8, 9]	6
SCST 4367		3 SCST 4379	3
	15		**15**

Total Hours: 120

1. MATH 1332 or MATH 1342 are recommended.
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5. See Degree Specific Requirement course list below.
6. See Prescribed Electives course list below.
7. Students will need at least 6 SCH of General Electives to meet the 120 total hours minimum required for graduation.
8. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
9. All minors can be paired with this degree program.

Code	Title	Hours
Degree Specific Requirements [5]		
Select four from the following:		
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 2367	Police Systems & Practices	3
CRIJ 2368	Criminal Investigation	3
CRIJ 2394	Courts And Criminal Procedure	3
ECON 2300	Introduction To Economics [1]	3
PHIL 2303	Critical Thinking [1]	3
SOCI 1301	Introduction to Sociology [1]	3

1. If one or more of these courses are taken to fulfill Core Curriculum requirements, degree-specific elective courses must be taken to fulfill the degree-specific elective course requirement.

Code	Title	Hours
Prescribed Electives [6]		
Select four from the following:		
SCST 2366	Introduction to Cybersecurity	3
SCST 2368	Transportation Security	3
SCST 3381	Climate and Security	3
SCST 3383	Energy Security	3
SCST 3384	Water Security	3
SCST 4301	Chemical and Energy Sector Resilience	3
SCST 4302	Healthcare Sector Resilience	3
SCST 4303	Transportation Sector Resilience	3
SCST 4362	United States Security Post 9/11	3
SCST 4364	Homeland Security and Emergency Management	3
SCST 4368	Technology and Homeland Security	3
SCST 4370	Intelligence Analysis	3
SCST 4373	Homeland Defense and Civil Support	3
SCST 4377	Special Topics in Security Studies	3
SCST 4386	Crisis and Risk Communications in HS	3
SCST 4387	Strategic Planning for Homeland Sec	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Homeland Security Studies is designed to provide graduates with the following marketable skills:

- Think critically, conduct analysis, derive conclusions based on evidence, and communicate effectively.
- Understand strategic policy-making to address homeland security challenges.
- Understand the interagency environment, the legal frameworks, and the international context in which the homeland security enterprise operates.

Undergraduate Certificate in Biosecurity and Pandemics

The Undergraduate Certificate in Biosecurity and Pandemics provides students with a strong knowledge base regarding: disease threats; pandemic preparedness and management; bioterrorism; public health policies and laws (both domestic and international); and the nexus between border security and public health as it pertains to unique challenges along the US-Mexico border. The undergraduate certificate is offered as a standalone as well as in conjunction with the B.S. and B.A. in Homeland Security Studies degrees.

Code	Title	Hours
Undergraduate Certificate in Biosecurity and Pandemics		
Required Courses		
SCST 3385	Bioterrorism and Biowarfare Preparedness and Response	3
SCST 3386	Health Access and Homeland Security	3
SCST 3393	Public Health in Homeland Security	3
SCST 4304	Global Health Security	3
SCST 4305	Binational Health Challenges	3
Total Hours		**15**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/biosecurity-and-pandemics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Biosecurity and Pandemics is designed to provide graduates with the following marketable skills:

- Biosecurity and Bioterrorism Threat Assessment.
- Pandemic Preparedness.
- Public Health Threats and Solutions.

Undergraduate Certificate in Security and Resilience in the Chemical and Energy Sectors

The Undergraduate Certificate in Security and Resilience in the Chemical and Energy Sectors is designed to educate students working in, or seeking careers in, areas relating to security and resilience of infrastructures in the chemical and energy sectors. The certificate covers all aspects of the homeland security cycle—from protection, prevention, and mitigation to response and recovery—as they relate to the chemical and energy sectors.

Code	Title	Hours
Undergraduate Certificate in Security and Resilience in the Chemical and Energy Sectors		
Required Courses		
SCST 2365	Introduction to Emergency Management	3
SCST 2366	Introduction to Cybersecurity	3
SCST 3383	Energy Security	3
SCST 4301	Chemical and Energy Sector Resilience	3
SCST 4367	Critical Infrastructure Security	3
Total Hours		**15**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/security-in-chemical-and-energy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Security and Resilience in the Chemical and Energy Sectors is designed to provide graduates with the following marketable skills:

- Risk Assessment.
- Emergency Management.
- Chemical and Energy Sector Security and Resilience.

Undergraduate Certificate in Security and Resilience in the Healthcare Sector

The Undergraduate Certificate in Security and Resilience in the Healthcare Sector is designed to educate students working in, or seeking careers in, areas relating to security and resilience of infrastructures in the healthcare and public health sectors. The undergraduate certificate covers all aspects of the homeland security cycle—from protection, prevention, and mitigation to response and recovery—as they relate to the public health sector as a component of critical infrastructure.

Code	Title	Hours
Undergraduate Certificate in Security and Resilience in the Healthcare Sector		
Required Courses		
SCST 2365	Introduction to Emergency Management	3
SCST 2366	Introduction to Cybersecurity	3
SCST 3393	Public Health in Homeland Security	3
SCST 4302	Healthcare Sector Resilience	3
SCST 4367	Critical Infrastructure Security	3
Total Hours		**15**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/security-in-healthcare/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Security and Resilience in the Healthcare Sector is designed to provide graduates with the following marketable skills:

- Risk Assessment.
- Emergency Management.
- Healthcare Sector Security and Resilience.

Undergraduate Certificate in Security and Resilience in the Transportation Sector

The Undergraduate Certificate in Security and Resilience in the Transportation Sector is designed to educate students working in, or seeking careers in, areas relating to security and resilience of infrastructures in the transportation sector. The undergraduate certificate covers all aspects of the homeland security cycle—from protection, prevention, and mitigation to response and recovery—as they relate to the transportation sector.

Code	Title	Hours
Undergraduate Certificate in Security and Resilience in the Transportation Sector		
Required Courses		
SCST 2365	Introduction to Emergency Management	3
SCST 2366	Introduction to Cybersecurity	3
SCST 2368	Transportation Security	3
SCST 4303	Transportation Sector Resilience	3
SCST 4367	Critical Infrastructure Security	3
Total Hours		**15**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/security-in-transportation/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Security and Resilience in the Transportation Sector is designed to provide graduates with the following marketable skills:

- Risk Assessment.
- Emergency Management.
- Transportation Sector Security and Resilience.

Minor in Homeland Security Studies

At the undergraduate level, the Department of Security Studies offers a Minor in Homeland Security Studies. This program will be offered primarily online, though there may occasionally be opportunities to take face-to-face courses at the Huntsville campus.

Required courses include the following courses:

Code	Title	Hours
Minor in Homeland Security Studies		
Required Courses		
SCST 2363	Introduction to Homeland Security	3
SCST 3394	Global Terrorism & Homeland Security	3
SCST 4362	United States Security Post 9/11	3
Prescribed Electives		
Choose three of the following:		9
SCST 4363	Homeland Security Intelligence	
SCST 4364	Homeland Security and Emergency Management	
SCST 4365	Border Security	
SCST 4366	Drug Policy and Security	
SCST 4367	Critical Infrastructure Security	
SCST 4377	Special Topics in Security Studies (limited usage, once for 3 SCH)	
Total Hours		**18**

Department of Victim Studies

Chair: Shelly Clevenger, Ph.D.

Contact the Department of Victim Studies:
936-294-4735

Website: Department of Victim Studies (https://www.shsu.edu/academics/victim-studies/)

About

Be a part of the new, path-breaking Department of Victim Studies, the only one of its kind in the nation!

Sam Houston State University's Department of Victim Studies offers one of the most innovative criminal justice programs available to students nationwide. Our experienced faculty provide foundational courses in the areas of victimology, victim studies, and victim services. Our graduate and undergraduate degree programs prepare students for a variety of career paths, ranging from victim advocacy and social justice activism to supervisory positions in victim services. In 2015 and 2016, *U.S. News & World Report* rated our on-line Master's degree programs #1 in the United States. Our Master of Science in Victim Services Management (MSVSM) program was included in this distinguished ranking.

You have a bright future at SHSU! The opportunities in our Department are endless, with flexible course offerings to fit your schedule:

- Recruiters from victim service agencies and organizations visit the center on a regular basis.
- Students receive real world experience by participating in agency tours, internships, and regional/national conferences.
- Courses are offered on-line, daytime, and in the evening.

Mission

The Department of Victim Studies is committed to providing high quality education to students in the field of victim services and conducting cutting-edge victimological research to better inform both policy and practice. Our goal is to produce a population of students prepared to provide exceptional services based on a solid understanding of industry trends and evidence-based practices. Faculty include renowned victimology scholars and esteemed victim services professionals with a combination of extensive education and field experience. Faculty provide opportunities for students to engage in community service work that is dedicated to making a difference in survivors' lives.

Contact Information

Questions on Department of Victim Studies Undergraduate Programs (cjadvising@shsu.edu)
Questions on Department of Victim Studies Graduate Programs (cjadvising@shsu.edu)

Suggested Minors

- Psychology
- Sociology
- Security Studies
- Human Services
- Public Health

Career Opportunities

- Victim coordinators and liaisons in prosecuting attorneys' offices and police agencies
- Victim service professionals operating within the correctional system
- Advocates and administrators in domestic violence, rape crisis, human trafficking, and anti-drunk driving organizations
- Military advocates
- Confidential campus advocates
- Adult and child protective services specialists

Curriculum

Sam Houston State University is authorized by the Texas Higher Education Coordinating Board to offer a Bachelor of Arts degree and a Bachelor of Science degree with a major in Victim Studies. Coursework for these degrees is offered in the Department of Victim Studies. The prefix designation for registration purposes is "VCST".

Program Specific Requirements

Please see the individual degree plans for degree specific requirements.

Code	Title	Hours
Victim Studies Courses		
VCST 3341	Aging, Crime and Victimization	3
VCST 3350	Victimology	3
VCST 3351	Victim Service Delivery	3
VCST 4338	Child Abuse And Neglect	3
VCST 4351	Trauma and Crisis Intervention	3
VCST 4370	Interviewing & Counseling	3
VCST 4376	Independent Study in Victim Studies	3
VCST 4377	Special Topics in Victim Studies	3
VCST 4383	Family Violence	3
VCST 4390	Violence Against Women	3
VCST 4398	Problem Analysis in Victim Studies	3
Total Hours		**33**

Code	Title	Hours
Major (no Minor)		
Core Courses		**15**
Victim Studies Electives		**27**
Total Hours		**42**

Code	Title	Hours
Minor (With Approved Minor in Another Field)		
Core Courses		**15**
Victim Studies Electives		**27**
Minor		**18**
Total Hours		**60**

- Bachelor of Arts, Major in Victim Studies (p. 472)
- Bachelor of Science, Major in Victim Studies (p. 475)

- Undergraduate Certificate in Victim Studies (p. 479)
- Minor in Victim Studies (p. 468)

Student Organizations and Activities

- Alpha Phi Sigma National Criminal Justice Honor Society
- Crime Victim Services Alliance
- Lambda Alpha Epsilon Criminal Justice Association
- National Association of Blacks in Criminal Justice
- National Organization of Hispanics in Criminal Justice
- Phi Alpha Delta Pre-Law Society
- Kats for CASA

Attend some of the many events for students including special guest lecturers at Real Talk with CJ, a career fair, an undergraduate conference, and mock courtroom trials.

Internships

An integral part of all degree offerings is the opportunity for field placement experience. The College of Criminal Justice Internship Program (http://www.shsu.edu/academics/criminal-justice/services/intern.html) is designed to provide students valuable work experience, on-the-job training, and an opportunity to develop a professional networking base for the future. Students in this program are offered unparalleled opportunities to participate in one of the nation's leading internship programs in the field of criminal justice.

Scholarships

Scholarships are available to criminal justice majors and awarded in the spring of each year at the College of Criminal Justice Honors Convocation for the following academic year. With the exception of incoming freshmen scholarships, a student must have completed at least one long semester at Sam Houston State University. Information on specific scholarships available in the College of Criminal Justice are available through Cutty Gilbert (cutty@shsu.edu) at (936) 294-3755. Graduate students may also apply for scholarships through the Graduate School. Certain conditions apply. For specific information regarding the Graduate School General Scholarship, contact Graduate Studies at: 936.294.2408 or gradstudies@shsu.edu.

Director/Chair: **Shelly Lynn Clevenger**

Lori Ann Albe, MS (laa043@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; BS, Sam Houston State University

Tara Anne Benevides, MS (tao008@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University

Mary Magdalene Breaux, PHD (mmp019@shsu.edu), *Professor of Practice in Victim Studies*, *Department of Victim Studies*, PHD, Prairie View A&M University; MA, Webster University; BS, Sam Houston State University

Shelly Lynn Clevenger, PHD (sxc167@shsu.edu), *Professor and Chair of Victim Studies*, *Department of Victim Studies*, PHD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Indiana University of Pennsyl

Jessica Caitlin Fleming, PHD (jcc063@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Sam Houston State University; PHD, Purdue University; MA, Sam Houston State University; BS, Sam Houston State University

Patricia Ann Harbin, MS (pab025@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; BS, Sam Houston State University

Kathleen Elisabeth McMahon, MS (keg001@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; MA, Sam Houston State University; BS, Sam Houston State University

Melissa Ann Merritt, MS (mam164@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; BACJ, Univ of Central Florida

Philip W Mulvey, PHD (pwm010@shsu.edu), *Associate Professor of Victim Studies*, *Department of Victim Studies*, PHD, Arizona State University; MA, Boston College; BS, Univ of Illinois-Urbana

Kathleen Rene Ratajczak, PHD (kxr084@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Univ of Kentucky; MA, Univ of Cincinnati; BA, John Carroll University

Barbara Ann Sims, PHD (bas108@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, PHD, Sam Houston State University; MA, Univ of Arkansas-Little Rock; BA, Univ of Arkansas-Little Rock

Bachelor of Arts, Major in Victim Studies

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-victim-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Victim Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
MATH 3379	Statistical Methods in Practice	3-4
or PSYC 3402	Psychological Statistics	
or STAT 3379	Statistical Methods in Practice	
Foreign Language [2]		14
Major: Foundation		
CRIJ 2361	Introduction To The Criminal Justice System [3, 4]	3
CRIJ 2362	Criminology [4]	3
CRIJ 3378	Introduction To Methods Of Research [5]	3
VCST 3350	Victimology [5]	3
VCST 4398	Problem Analysis in Victim Studies	3
Major: Prescribed Electives		**27**
Select nine of the following		
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 4073	Undergraduate Internship in Criminal Justice	
CRIJ 4362	Substance Use And Abuse	
CRIJ 4385	Criminal Justice and Social Diversity	
POLS 3338	Victims' Rights, Politics, and Policy	
VCST 3341	Aging, Crime and Victimization	
VCST 3351	Victim Service Delivery	
VCST 4338	Child Abuse And Neglect	
VCST 4351	Trauma and Crisis Intervention	
VCST 4370	Interviewing & Counseling	
VCST 4376	Independent Study in Victim Studies	
VCST 4377	Special Topics in Victim Studies	
VCST 4383	Family Violence	
VCST 4390	Violence Against Women	
Electives: General		
General Electives		16
Electives: Advanced		
Advanced Electives		12
Minor: Not Required [6, 7]		
Total Hours		**120-121**

1 MATH 1332 or MATH 1342 is recommended.

2 WOLC 2311 satisfies the Core Curriculum requirement for Component Area IV, and WOLC 2312 satisfies three hours of the Core Curriculum requirement for Component Area IX.

[3] CRIJ 2361 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).
[4] May be completed during either Fall or Spring semester of Year 1.
[5] May be completed during either Fall or Spring semester of Year 2.
[6] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
[7] The following minors cannot be paired with this degree program: Minor in Criminal Justice and Minor in Victim Studies.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Forty-two semester hours of Advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be Advanced.

Use General Electives to satisfy the 42 Advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-victim-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area V (p. 90)	3
CRIJ 2361[2, 3]	3	CRIJ 2362[2]	3
ENGL 1301[4]	3	ENGL 1302[4]	3
HSTY 1301[5]	3	HSTY 1302[5]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	General Electives	3
CRIJ 3378[6]	3	MATH 3379, PSYC 3402, or STAT 3379	3-4
General Electives	3	POLS 2306[7]	3
POLS 2305[7]	3	VCST 3350[6]	3
WOLC 1411	4	WOLC 1412	4
	14		**16-17**

Third Year

Fall	Hours	Spring	Hours
Advanced Electives	3	Advanced Electives	3
General Electives	3	General Electives	3
Prescribed Electives[8]	3	Prescribed Electives[8]	3
Prescribed Electives[8]	3	Prescribed Electives[8]	3
WOLC 2311[9]	3	WOLC 2312[10]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives	6	General Electives	4
Prescribed Electives[8]	3	Prescribed Electives[8]	6
Prescribed Electives[8]	3	Prescribed Electives[8]	3
VCST 4398	3		
	15		**13**

Total Hours: 120-121

1 MATH 1332 or MATH 1342 is recommended.
2 May be completed during either Fall or Spring semester of Year 1.
3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Satisfies Core Curriculum requirement for Component Area I (Communication).
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 May be completed during either Fall or Spring semester of Year 2.
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8 See Prescribed Electives course list below.
9 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
10 Satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

Code	Title	Hours
Prescribed Electives [8]		
Select nine of the following		
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 4073	Undergraduate Internship in Criminal Justice	1-12
CRIJ 4362	Substance Use And Abuse	3
CRIJ 4385	Criminal Justice and Social Diversity	3
POLS 3338	Victims' Rights, Politics, and Policy	3
VCST 3341	Aging, Crime and Victimization	3
VCST 3351	Victim Service Delivery	3
VCST 4338	Child Abuse And Neglect	3
VCST 4351	Trauma and Crisis Intervention	3
VCST 4370	Interviewing & Counseling	3
VCST 4376	Independent Study in Victim Studies	3
VCST 4377	Special Topics in Victim Studies	3
VCST 4383	Family Violence	3
VCST 4390	Violence Against Women	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Criminal Justice and Minor in Victim Studies.

Forty-two semester hours of Advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be Advanced.

Use General Electives to satisfy the 42 Advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in in Victim Studies is designed to provide graduates with the following marketable skills:

- Critical thinking.
- Written and oral communication.
- Analytical research.
- Proactive and action oriented.

Bachelor of Science, Major in Victim Studies

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-victim-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Victim Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 3379	Statistical Methods in Practice	3-4
or STAT 3379	Statistical Methods in Practice	
or PSYC 3402	Psychological Statistics	
Select five of the following:		15
COMS 3370	Intercultural Communication	
COMS 3371	Conflict, Negotiation, and Resolution	
ECON 2300	Introduction To Economics	
PHIL 2303	Critical Thinking	
PHIL 3365	Modern Philosophy	
POLS 3393	Social Policy	
PSYC 1301	Introduction To Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 3383	Psychology And The Law	
SOCI 1301	Introduction to Sociology	
SOCI 3324	Social Inequality	
Major: Foundation		
CRIJ 2361	Introduction To The Criminal Justice System [2, 3]	3
CRIJ 2362	Criminology [3]	3
CRIJ 3378	Introduction To Methods Of Research [4]	3
VCST 3350	Victimology	3
VCST 4398	Problem Analysis in Victim Studies	3
Major: Prescribed Electives		
Select nine of the following:		27
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 4073	Undergraduate Internship in Criminal Justice	
CRIJ 4362	Substance Use And Abuse	
CRIJ 4385	Criminal Justice and Social Diversity	
POLS 3338	Victims' Rights, Politics, and Policy	
VCST 3341	Aging, Crime and Victimization	
VCST 3351	Victim Service Delivery	
VCST 4338	Child Abuse And Neglect	
VCST 4351	Trauma and Crisis Intervention	
VCST 4370	Interviewing & Counseling	
VCST 4376	Independent Study in Victim Studies	
VCST 4377	Special Topics in Victim Studies	

VCST 4383	Family Violence	
VCST 4390	Violence Against Women	
Electives: General		
General Electives		21
Minor: Not Required [5, 6]		
Total Hours		**120-121**

1 MATH 1332 or MATH 1342 is recommended.
2 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 May be completed during either Fall or Spring semester of Year 1.
4 May be completed during either Fall or Spring semester of Year 2.
5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
6 The following minors cannot be paired with this degree program: Minor in Criminal Justice and Minor in Victim Studies.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use General Electives to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-victim-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area V (p. 90)	3
CRIJ 2361[2, 3]	3	CRIJ 2362[3]	3
ENGL 1301[4]	3	ENGL 1302[4]	3
HSTY 1301[5]	3	HSTY 1302[5]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)	3
Component Area IX (p. 91)	1	Degree Specific Requirement[7]	3
CRIJ 3378[6]	3	MATH 3379, STAT 3379, or PSYC 3402	3-4
Degree Specific Requirement[7]	3	POLS 2306[8]	3
POLS 2305[8]	3	VCST 3350	3
	13		**15-16**

Third Year

Fall	Hours	Spring	Hours
Degree Specific Requirement[7]	3	Degree Specific Requirement[7]	3
General Electives	6	General Electives	6
Prescribed Electives[9]	3	Prescribed Electives[9]	3
Prescribed Electives[9]	3	Prescribed Electives[9]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Degree Specific Requirement[7]		3 General Electives	6
General Electives		3 Prescribed Elective[9]	6
Prescribed Electives[9]		3 Prescribed Electives[9]	3
Prescribed Electives[9]		3	
VCST 4398		3	
		15	**15**

Total Hours: 120-121

1 MATH 1332 or MATH 1342 is recommended.
2 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 May be completed during either Fall or Spring semester of Year 1.
4 Satisfies Core Curriculum requirement for Component Area I (Communication).
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 May be completed during either Fall or Spring semester of Year 2.
7 See Degree Specific Requirements course list in the table below.
8 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
9 See Prescribed Electives course list in the table below.

Code	Title	Hours
Degree Specific Requirements [7]		
Select five of the following:		
COMS 3370	Intercultural Communication	3
COMS 3371	Conflict, Negotiation, and Resolution	3
ECON 2300	Introduction To Economics	3
PHIL 2303	Critical Thinking	3
PHIL 3365	Modern Philosophy	3
POLS 3393	Social Policy	3
PSYC 1301	Introduction To Psychology	3
PSYC 3331	Abnormal Psychology	3
PSYC 3383	Psychology And The Law	3
SOCI 1301	Introduction to Sociology	3
SOCI 3324	Social Inequality	3

Code	Title	Hours
Prescribed Electives [9]		
Select nine of the following:		
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 4073	Undergraduate Internship in Criminal Justice	1-12
CRIJ 4362	Substance Use And Abuse	3
CRIJ 4385	Criminal Justice and Social Diversity	3
POLS 3338	Victims' Rights, Politics, and Policy	3
VCST 3341	Aging, Crime and Victimization	3
VCST 3351	Victim Service Delivery	3
VCST 4338	Child Abuse And Neglect	3
VCST 4351	Trauma and Crisis Intervention	3
VCST 4370	Interviewing & Counseling	3
VCST 4376	Independent Study in Victim Studies	3
VCST 4377	Special Topics in Victim Studies	3
VCST 4383	Family Violence	3
VCST 4390	Violence Against Women	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Criminal Justice and Minor in Victim Studies.

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use General Electives to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Victim Studies is designed to provide graduates with the following marketable skills:

- Critical thinking.
- Written and oral communication.
- Analytical research.
- Proactive and action oriented.

Undergraduate Certificate in Victim Studies

The Undergraduate Certificate in Victim Studies provides students and professionals with an overview of victimology and victim services.

Code	Title	Hours
Undergraduate Certificate in Victim Studies		
Required Courses		
VCST 3350	Victimology	3
VCST 3351	Victim Service Delivery	3
VCST 4351	Trauma and Crisis Intervention	3
VCST 4383	Family Violence	3
VCST 4390	Violence Against Women	3
Total Hours		**15**

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/victim-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Victim Studies is designed to provide graduates with the following marketable skills:

- Assist victims in an empathetic and compassion way.
- Understand the victim experience.
- Be equipped to help victims through the criminal justice system.

Minor in Victim Studies

The Minor in Victim Studies provides students with an overview of victimology and victim services.

Code	Title	Hours
Minor in Victim Studies		
Required Courses		
VCST 3350	Victimology	3
VCST 4383	Family Violence	3
Prescribed Electives		
Select four of the following:		12
VCST 3341	Aging, Crime and Victimization	
VCST 3351	Victim Service Delivery	
VCST 4338	Child Abuse And Neglect	
VCST 4351	Trauma and Crisis Intervention	
VCST 4370	Interviewing & Counseling	
VCST 4390	Violence Against Women	
Total Hours		**18**

College of Education

Administrative Officers

Title/Department	Officer
Dean	Stacey Edmonson, Ed.D. edu_sle01@shsu.edu; (936) 294-1101
Associate Dean for Academic Administration and Enrollment	Abbie Strunc, Ph.D. abbie.strunc@shsu.edu; (936) 294-1062
Associate Dean for Educational Assessment and Accountability	Casey Brown, Ph.D. ccb068@shsu.edu; (936) 294-4287
Associate Dean for Student Success and Partnerships	Helen Berg, Ph.D. hberg@shsu.edu; (936) 294-4633
Senior Director of Strategic Operations and Projects	TBD
Department of Counselor Education	Leigh Holman, Ph.D., Chair laf006@shsu.edu; (936) 294-3410
Department of Educational Leadership	Eric Platt, Ph.D., Chair eep032@shsu.edu; (936) 294-3705
Department of Library Science and Technology	Holly Weimar, Ed.D., Chair hweimar@shsu.edu; (936) 294-1150
School of Teaching and Learning	Kristina Vargo, Ph.D., Chair kkv003@shsu.edu; (936) 294-4099

About the College

The College of Education is comprised of four academic units:

1. Counselor Education
2. Educational Leadership
3. Library Science and Technology
4. School of Teaching and Learning

Teacher Certification is also under the administrative purview of the College of Education.

Website: Education (https://www.shsu.edu/academics/education/)

Vision Statement

Preparing leaders to impact a diverse and evolving world.

Belief Statements

- What we all do matters.
- Innovation fosters creativity, critical thinking, and passion.
- Relevant experiences promote growth and inspires change.
- Strength is found in valuing diversity.
- Positive relationships influence success.

Academic Programs

Departments	Programs
	Majors
Department of Educational Leadership	Bachelor of Arts in Educational Studies
Department of Library Science and Technology	Bachelor of Arts in Learning Technologies
School of Teaching and Learning	Bachelor of Science in Education
	Minors
Counselor Education	Human Services
School of Teaching and Learning	Early Childhood Education (not for certification)
School of Teaching and Learning	Special Education (not for certification)

Note: There is not an undergraduate major in Secondary Education. The primary teaching field will be listed as the major for students seeking certification in Grades 7-12.

Teacher Preparation Programs at Sam Houston State University

Levels of Certification

Level	Title
EC-6	Early Childhood 6th Grade
4-8	Middle Grades 4th-8th
6-12	Grades 6th-12th
7-12	Secondary 7th-12th
EC-12	All-level: Early Childhood-12th

College/Department Housing Major

Abbreviation	Title
COSET	College of Science and Engineering Technology
COBA	College of Business Administration
COED	College of Education
COAM	College of Fine Arts and Mass Communication
COHS	College of Health Sciences
CHSS	College of Humanities and Social Sciences
SOTL	School of Teaching and Learning

Content Area	Level of Certification	Major College/Department
Agricultural Science and Technology	6-12	COSET: Agriculture
Art	EC-12	COAM: Art
Generalist	EC-6	COED: School of Teaching and Learning
Generalist with Bilingual Spanish	EC-6	COED: School of Teaching and Learning
Generalist with Special Education	EC-6, EC-12 (SPED)	COED: School of Teaching and Learning
Business Education	6-12	COBA: General Business
Computer Science	8-12	COSET: Computer Science
Dance	8-12	COAM: Theatre & Dance
English, Language Arts and Reading	7-12	CHSS: English
English, Language Arts, and Reading/Social Studies	4-8	CHSS: English
Languages Other than English-French	EC-12	CHSS: World Languages and Cultures
Languages Other than English-German	EC-12	CHSS: World Languages and Cultures
History	7-12	CHSS: History
Journalism	7-12	COAM: Mass Communication
Languages Other than English-Spanish	EC-12	CHSS: World Languages and Cultures
Life Science	7-12	COSET: Biology
Mathematics	4-8	COED: School of Teaching and Learning
Mathematics	7-12	COSET: Mathematics
Mathematics/Science	4-8	COED: School of Teaching and Learning
Music	EC-12	COAM: School of Music
Physical Education	EC-12	COHS: Kinesiology
Physical Sciences	6-12	COSET: Physics
Social Studies	7-12	CHSS: Polical Science, History
Speech	7-12	COAM: Mass Communication
Technology Applications	EC-12	COSET: Computer Science
Technology Education	6-12	COSET: Agriculture
Theatre or Theatre Arts	EC-12	COAM: Theatre & Dance
Trade and Industrial Education	6-12	COSET: Agriculture

Graduate Study

Graduate degrees offered through the College of Education are:

- Master of Arts,
- Master of Education,
- Master of Library Science,
- Master of Science,
- Doctor of Education, and
- Doctor of Philosophy.

The **Graduate and Professional Catalog** provides detailed information.

Scholarships

Several academic scholarships are available for undergraduate teaching candidates through the academic departments in the College of Education; other scholarships are also available through the University. Information about departmental scholarships and application forms may be obtained at the College of Education Website. Information on University scholarships may be obtained by calling (936) 294-1672.

Required Field Experiences

Undergraduate and post-baccalaureate candidates are required to participate in field experiences in the public schools. Requirements for these activities vary by course and are coordinated by the Director of Educator Preparation Services. The Educator Preparation Services office facilitates a review of the criminal history background of each candidate to assure the safety of the public school children who interact with SHSU teaching candidates. This review is required by state law.

Admission to the Educator Preparation Program Admission Standards

In the first education class, candidates seeking initial Teacher Certification apply online for admission to the program. A one-time application fee is charged upon application. In addition, candidates for admission must obtain an online account in the College of Education data management system. Admission to the Educator Preparation program requires meeting each of the criteria listed below and will be pending until each requirement is satisfied. Teaching candidates will not be permitted to participate in the Literacy Methods Block, Content Methods Block, Field Experience I, Student Teaching, or in The Year Long Residency without full admission and continued academic good standing in the Educator Preparation Program. The requirements are: **Demonstration of successful college performance:**

- 2.75 overall GPA (includes transfer hours and SHSU hours)
- 2.75 GPA in content area or teaching field
- “C” or above in all courses in the teaching field
- Interview: Educator Dispositions Screening Instrument
- Basic Skills Requirements found at Educator Preparation Services (http://www.shsu.edu/academics/education/educator-preparation-services/)

Regular admission to the Educator Preparation program is required prior to placement in the Literacy Methods Block, Content Methods Block, and Field Experience I coursework. The requirements for admission to blocks are:

- Clear criminal history background check;
- Full admission and continued academic good standing in the Educator Preparation Program;
- Satisfactory demonstration of oral communication skills;
- 2.75 GPA in the teaching field or area of specialization; and
- No grade below “C” in courses required for the teaching field or certification.

Full Admission and continued academic good standing in the program are also required for placement in Student Teaching.

Teacher Certification

The preparation of teachers for the public schools in Texas is the responsibility of the entire Sam Houston State University community and the public school districts that participate Sam Houston’s Innovative Partnerships with Schools (SHIPS). Students seeking certification in grades EC-6 or 4-8 will follow the degree plan for Education. Students who wish to teach a content subject in grades 7-12 or 8-12 will major in a teaching field area (i.e. Mathematics, English, History) with a minor in Secondary Education (SED). Some specialized areas of teaching require certification for a wider range of grades, usually 6-12 or EC-12. The Certification Officer, located in the Steele Center for Professional Practice, will provide certification and grade level assignment information upon request.

All teaching certificates are issued by the State Board for Educator Certification (SBEC) under the supervision of the Texas Education Agency, upon recommendation of the University, and are subject to change. This recommendation includes verified completion of an approved program in educator preparation and a statement affirming the academic, moral, and physical fitness of the individual for service as a teacher. Sam Houston State

University regards this recommendation process as a serious responsibility and has high standards for admission to candidacy in the SHSU Educator Preparation program, checkpoints throughout the program, and exit requirements.

Initial certification requires completion of a state-approved educator preparation program (programs are described below).

State of Texas Certification Tests

Candidates must successfully complete state-mandated certification examinations in order to be recommended for a standard certification by Sam Houston State University. Candidates take certification tests in the teaching field/s and in professional and pedagogical knowledge. Guidelines and procedures for taking state mandated certification tests are available on the website for TExES (https://www.tx.nesinc.com/) or at Educator Preparation Services (http://www.shsu.edu/academics/education/educator-preparation-services/) in the Garrett Teacher Education Center, Room 100L2. It is the responsibility of the student to be familiar with the Texas standards for their area to become familiar with the testing guidelines and procedures, to be aware of test registration deadlines, and to complete registration forms correctly.

Application for State Teaching Certification

After the undergraduate has successfully completed the program requirements for graduation and certification and passed the appropriate certification exams, application should be made online to the State Board of Educator Certification for the standard teaching certificate. The University makes a recommendation for certification after the online application and fingerprinting process has been completed and the degree has been posted on the student's transcript. For further information, contact the SHSU Certification Officer at (936) 294-1045.

Education Leading to Certification in Early Childhood Through 6th Grade (EC-6) or 4th Grade Through 8th Grade (4-8)

For teaching in grades EC-6, the major is Education with three choices for certification: The primary purpose of the Education program is to prepare candidates to become exemplary teachers in Early Childhood through 6th grade (EC-6) classrooms and 4th grade through 8th grade (4-8) classrooms. The Education program consists of at least 125 semester credit hours, including student teaching or a year long residency. In addition to meeting Texas Standards for EC-6 or 4-8 Teachers, these degree plan programs also prepare candidates to secure a supplemental certificate in English as a Second Language teaching, preferred by many school districts in Texas. The ESL supplemental certificate does not require proficiency in a second language, but prepares certification candidates for effective teaching of English language learners. **Candidates registered for nine hours during the student teaching semester are considered to be full-time students by SHSU.** Candidates majoring in Education have the following choices of teaching certification:

- Generalist (EC-6 Generalist), or
- Generalist (EC-6 Generalist with Bilingual Education Supplement), or
- Generalist (EC-6 Generalist with EC-12 Special Education).

For teaching in grades 4-8, the major is Education with four choices of a minor:

- English Language Arts and Reading (4-8 ELAR),
- Mathematics (4-8 Mathematics),
- Science Composite (4-8 Science), or
- Social Studies (4-8 SS)

For Education majors, the current Texas Teaching Certificates awarded upon completion of all program requirements and successful performance on the related certification examinations are:

- EC-6 Generalist
- EC-6 Generalist with Bilingual Education Supplement
- EC-6 Generalist, with EC-12 Special Education
- 4-8 English Language Arts ESL supplement
- 4-8 Mathematics and ESL supplement
- 4-8 Science ESL Supplement (all Interdisciplinary Studies candidates for this additional certificate)
- 4-8 Social Studies and ELS supplement

Candidates majoring in Education may also choose to minor in Early Childhood. That route DOES NOT lead to teaching certification. A teaching certificate for Early Childhood teachers is not offered by the State Board for Educator Certification. All of the above programs have a 42-hour common core of Foundation Courses and a common set of Professional Education Courses that does not exceed 24 semester credit hours. Each major has a unique set of Interdisciplinary Studies courses which vary in the number of hours depending on choice of certification. The Educaiton major component has a minimum of 48 hours. Degree plans which include dual certification fields will require additional semester hours of course credits. Students choosing one of these majors/minors should contact the education advisor in the SAM Center as soon as possible to learn the exact courses required for the selected minor and for advising to assist in a smooth progress through the program. All Education majors are assessed at multiple benchmarks throughout their program and must be recommended at each checkpoint to progress through the program. Thus, they are:

1. Required to apply for admission to Educator Preparation (see Admission to the Educator Preparation Programs, Admission Standards),
2. Required to apply for placement in Literacy Block or Field Experience I,
3. Required to apply for placement in Methods Block, and
4. Required to apply for Student Teaching and/or Year Long Residency.

Department of Counselor Education

Chair: Leigh Holman, Ph.D. (laf006@shsu.edu)

Contact Information

Phone: (936) 294-3410

Website: Department of Counselor Education (https://www.shsu.edu/academics/counselor-education/)

The Department of Counselor Education currently offers an undergraduate minor in Human Services. The minor in Human Services is designed to develop skills necessary to work with people in a variety of professional and personal settings. This 18-hour minor includes knowledge and experiences for helping professions, service learning, career development, child-centered play, family relationships, communication and wellness counseling. Courses in Human Services will help students improve listening and relationship skills, develop insight for helping others, and improve self-awareness. The Human Services minor is great choice for those considering helping professions, including counseling.

See the current graduate catalog (p. 1550) for graduate degrees offered within The Department of Counselor Education.

- Human Services Minor (p. 488)

Director/Chair: **Kimberly Walker McAlister**

Sinem Akay-Sullivan, PHD (sxa055@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MED, Univ of North Texas; MS, Middle East Technical Univ; BS, Hacettepe University

Dusanka Armstrong, MA (dxa015@shsu.edu), *Adjunct*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

Tershundrea Branch, PHD (txb035@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; BS, Lamar University

Yvonne Garza-Chaves, PHD (yxg002@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MSW, Our Lady of Lake University; BSW, Univ of Texas-Pan American

Megan Renee Garzaglass, PHD (mrg044@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Houston-Clear Lake; BS, California St Un-Sacramento

Susan Elizabeth Henderson, PHD (shenderson@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Sam Houston State University; MA, Hardin Simmons University; BS, Stephen F Austin University

Maribeth Frances Jorgensen, PHD (mxj040@shsu.edu), *Associate Professor of Counselor Education and Assistant Dean, COED*, *Department of Counselor Education*, PHD, The University of South Dakota; MSED, Univ of Nebraska-Kearney; BS, Univ of Nebraska-Kearney

Chi-Sing Li, PHD (dcl001@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, East Texas A&M; MED, Univ of Louisiana-Monroe; MED, Univ of Louisiana-Monroe; BA, Univ of Texas At Austin

Kirby Kincannon Luna, MA (kak075@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, MA, Sam Houston State University

Kimberly Walker McAlister, EDD (kwm019@shsu.edu), *Visiting Professor and Acting Chair of Counselor Education*, *Department of Counselor Education*, EDD, Univ of Louisiana-Monroe; MED, Northwestern St Un of Louisana; BS, Univ of Louisiana-Monroe

Felicia Leila Mirghassemi, PHD (flm002@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas At Tyler; BS, Univ of Texas At Tyler

Amaris Nicole Molina, PHD (anm180@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Univ of Texas-San Antonio; BA, Texas Tech University

Seth David Olson, PHD (sxo036@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Kent State University; PHD, Kent State University; MA, The University of South Dakota; BA, Univ of Nebraska-Lincoln

Erin Nicole Pitts, MA (enp008@shsu.edu), *Clinical Assistant Professor of Counselor Education*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

Kathleen Ann Rice, PHD (kar084@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of N Carolina-Charlotte; MS, South Dakota State University; BS, South Dakota-Mines/Tech

Ruby Rodriguez Almendarez, PHD (stdrxr13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Sam Houston State University; BACJ, Sam Houston State University; BS, Sam Houston State University

Jennifer Hatchett Stover, PHD (jlh159@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; MAT, Texas Woman's University; BS, Texas Woman's University

Jeffrey M Sullivan, PHD (jms107@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MS, Univ of North Texas; BA, Univ of Texas At Austin

Lana Francine Trotter, PHD (lfc013@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas-San Antonio; BA, Univ of North Texas

Efrain Francisco Uribe, PHD (stdexu13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MED, Sam Houston State University; BA, Univ of Texas-Brownsville

Danielle Nicole White, PHD (stddnw13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MED, Lamar University; BS, Univ of Houston-Downtown

Warren Brandon Wright, MED (wbw007@shsu.edu), *Lecturer of Education*, *Department of Counselor Education*, MED, Georgia Southern University; BS, Georgia Southern University

Natasha Young Risher, MED (nxy007@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, MED, Texas Southern University; BA, Univ of Houston-Main

Minor in Human Services

The Human Services minor field of study is offered by the Department of Counselor Education (DCE). The DCE is located in the Counselor Education Center, adjacent to the Garrett Teacher Education Center.

The Human Services minor is designed for students working toward a bachelor's degree who are interested in developing skills necessary to work with people in a variety of professional and personal settings. The goals for the 18 semester-hour minor are:

- introduce undergraduates to the helping professions, especially counseling in its many applications;
- involve undergraduates in courses that are highly experiential and that involve service learning opportunities;
- offer two sophomore level classes which can be useful electives for a wide range of majors, i.e. COUN 3321, and COUN 3322. COUN 3322 provides critical support for all undergraduate students as they prepare for the world of work; and
- increase understanding of self and others through improved listening and communication skills.

Courses to be included in the 18 semester-hour undergraduate minor in Human Services are as follows:

Code	Title	Hours
Minor in Human Services		
Required Courses		
COUN 3321	Introduction to the Helping Relationship	3
Select three or four courses from the following:		9
COUN 3322	Career Development	
COUN 3331	Introduction to Principles Of Counseling	
COUN 3332	Therapeutic Play Skills	
COUN 4379	Wellness Counseling	
Additional Courses		
Select one or two courses from the following:		6
COMS 4386	Family Communication	
PSYC 3365	Close Relationships	
SOCI 3341	Marriage And The Family	
Total Hours		**18**

Department of Educational Leadership

About

Chair: Dr. Eric Platt (eep032@shsu.edu)

Contact Information

Phone: (936) 294-1147

Website: Department of Educational Leadership (http://www.shsu.edu/academics/educational-leadership/)

Mission

Preparing leaders to impact a diverse and evolving world.

Vision

The Department of Educational Leadership has a unique role given our university's history as a teacher's college. We are situated at the crossroads of both a rural community and one of the largest urban areas in the country. We aim to create an inclusive environment that embraces the diversity of experiences our faculty and students bring from across P-16 in these communities. We believe in the importance of quality teaching and mentoring that is directive, informative, and inspiring. We are committed to fostering meaningful relationships, innovation, and scholarship that address critical issues in education so that we ***empower a courageous community of educational leaders to create the world we want to live in***.

Career Opportunities

The Bachelor of Arts (B.A.) in Educational Studies is designed for students who wish to study education and work in education-related fields but do not wish to be certified as K-12 teachers. Through coursework, projects, advising, and independent studies, students will explore issues related to education policy and practice as well as connections between education and other institutions (e.g., business, criminal justice, health, government). This degree will prepare students for careers in:

- Non-profit educational agencies
- Educational policy analysts
- Educational grant writing
- Data analytics and program evaluation in education
- Human resources development
- Career/college advising
- College admissions and recruiting
- Student affairs (e.g., student activities, housing, leadership)

Majors

- Bachelor of Arts, Major in Educational Studies (p. 491)

Director/Chair: **Ronald Eric Platt**

Casey Camille Graham Brown, PHD (ccb068@shsu.edu), *Adjunct Faculty, Associate Dean COE*, *Department of Educational Leadership*, PHD, Univ of Oklahoma-Norman; MED, Univ of Oklahoma-Norman; BS, Southeastern Oklahoma St Univ

Christine Marie Butler, EDD (cmb013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MA, Northwestern St Un of Louisana; BA, Northwestern St Un of Louisana

Julie P Combs, EDD (jpc002@shsu.edu), *Distinguished Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BS, Texas A&M University

Rebecca Duncan-Ramirez, PHD (rlw003@shsu.edu), *Clinical Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Ferris State University; MED, Sam Houston State University; BBA, Sul Ross State University

Paul William Eaton, PHD (pwe003@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, LSU & A&M College; MED, Univ of Maryland-College Park; BA, Univ of Minnesota-Twin Cities

Matthew Bryan Fuller, PHD (mbf005@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Illinois State University; MS, Texas A&M University; BA, Texas A&M University

Tim T Harkrider, EDD (tth013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Univ of Texas-Arlington; BS, Stephen F Austin University

Janene Withers Hemmen, EDD (stdjwh22@shsu.edu), *Clinical Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Iowa State University

Peggy Philpot Holzweiss, PHD (pholzweiss@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Nichole J Karpel, EDD (njk017@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, George Washington University; MED, Penn State Un-Univ Park; BA, East Connecticut State Univ

Cynthia Martinez-Garcia, EDD (cmg021@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Texas A&M-Kingsville; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

Nara Martirosyan, EDD (nxm021@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MS, Grambling State Univ; BA, Tatev Pedagogical University

Staci Elizabeth Mizell, EDD (sem108@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Univ of Houston-Clear Lake; MBA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Ricardo Montelongo, PHD (rxm059@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Indiana University; MS, Texas A&M University; BS, Texas A&M University

Benjamin Scott Petty, MED (stdbsp11@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, MED, Sam Houston State University; BS, Florida College

Ronald Eric Platt, PHD (eep032@shsu.edu), *Professor and Chair of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Clare Amparito Resilla, EDD (clr067@shsu.edu), *Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Lamar University; BA, St. Theresa's College

David Patrick Saxon, EDD (dps006@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MBA, Appalachian State University; BSBA, Appalachian State University

Gabriela Judith Silvestre, PHD (gjs020@shsu.edu), *Assistant Professor of Education*, *Department of Educational Leadership*, PHD, University of Pittsburgh; MED, University of Pittsburgh; CERN, Universidad Nacional Del Lit

Susana Troncoso Skidmore, PHD (skidmore@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

John R Slate, PHD (jrs051@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Univ of Tennessee-Knoxville; MA, Univ of Tennessee-Knoxville; BA, Eastern Illinois University

Sandra K Stewart, EDD (sks050@shsu.edu), *Clinical Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Stephen F Austin University; MED, Stephen F Austin University; BS, Stephen F Austin University

Steven Craig Toney, MED (sct017@shsu.edu), *Superintendent of Schools*, *Department of Educational Leadership*, MED, Texas A&M-Texarkana; MEDI, Southwest Baptist Theo Seminar

Stacey Lynn Victor, EDD (sedmonson@shsu.edu), *Professor of Education and Dean, College of Education*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BA, Texas A&M University

Bachelor of Arts, Major in Educational Studies

Code	Title	Hours
Bachelor of Arts, Major in Educational Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
LETE 1301	Technology in Education	3
LETE 1303	Learning Technology Tools	3
LETE 2302	Multimedia Learning Design & Development	3
PHIL 2303	Critical Thinking [1]	3
PSYC 3374	Development Psychology	3
Major: Foundation		
BESL 2301	Multicultural Influence On Learning	3
COUN 3322	Career Development	3
EDUC 2302	Foundations of Public Education	3
EDUC 2303	Introduction to Comparative Education	3
EDUC 2304	Philosophical Influences on Educational Systems	3
EDUC 3301	Issues in Education	3
EDUC 3303	Science of Learning	3
EDUC 3304	Educational Curriculum Design	3
EDUC 4303	Program Evaluation in Education	3
EDUC 4367	Capstone in Educational Studies	6
LETE 3301	Learning and Technology Foundations	3
LETE 3302	Learning Design	3
SOCI 3344	Sociology of Education	3
SPED 2301	Introduction to Exceptionality	3
Minor: Required [2]		**18-24**
Total Hours		**120-126**

1 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavior Science).
2 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area V (p. 90)	3

Component Area IX (p. 91)		1 ENGL 1302[1]	3
ENGL 1301[1]		3 EDUC 2304	3
HSTY 1301[2]		3 HSTY 1302[2]	3
		14	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 BESL 2301	3
LETE 1301		3 EDUC 3301	3
EDUC 2302		3 LETE 1303	3
PHIL 2303[3]		3 POLS 2306[4]	3
POLS 2305[4]		3 SPED 2301	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
EDUC 2303		3 Component Area IX	3
LETE 2302		3 EDUC 3303	3
Minor		6 LETE 3301	3
PSYC 3374		3 Minor	6
		SOCI 3344	3
		15	**18**

Fourth Year

Fall	Hours	Spring	Hours
EDUC 3304		3 EDUC 4303	3
EDUC 4367		3 EDUC 4367	3
LETE 3301		3 LETE 3302	3
Minor		6-9 Minor	3-6
		15-18	**12-15**

Total Hours: 120-126

1 Satisfies Core Curriculum requirement for Component Area I (Communication).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA, Major in Educational Studies is designed to provide graduates with the following marketable skills:

- Analyze educational theory, research, and practice.
- Examine education policy and issues from multiple perspectives.
- Apply social-science methods and data analytic techniques for solving problems in education.
- Analyze educational issues from diverse perspectives.

Department of Library Science and Technology

Chair: Holly Weimar, Ed.D. (haw001@shsu.edu) (936) 294-1150

Website: Department of Library Science and Technology (http://www.shsu.edu/academics/library-science/)

Mission

The Department of Library Science and Technology through excellence in instruction, scholarship, and other creative activities, as well as service to the public, to the profession, and to the community provides professionals with the knowledge, skills, experiences, and dispositions necessary to serve a diverse population within Texas, across the country, and globally. The Department of Library Science and Technology also seeks to educate leaders who transform learning.

Academic Programs

The Department is home to a Bachelor of Arts in Learning Technologies. The program is 100% online and is designed to equip future educators and educational support staff with a deep understanding of the role that digital technologies play in the modern teaching and learning process. Students explore digital technology tools commonly used in education and develop the skills necessary to integrate these tools effectively into traditional, virtual, and hybrid learning spaces. In addition, students engage with foundational theories of instructional systems, design principles, educational research, and assessment and evaluation. Those who are considering a non-traditional of traditional path towards a degree may be interested in this program. Anyone interested in becoming a professional in an educational technology field might want to pursue this degree.

Values

- Student success
- Academic excellence
- Inclusiveness
- Collaboration
- Creativity and innovation

Highlights

- The online program has class sizes that provide an opportunity for close working relationships between faculty and students
- The faculty collaborate together and provide support for students
- The programs prepare students with critical thinking and problem-solving skills that may be applied in their careers

Career Opportunities

- Instructional Technologist
- Instructional Designer
- Experience Designer
- eLearning Developer
- Training Specialist

- Bachelor of Arts, Major in Learning Technologies (p. 496)

Library Science Scholarships

Apply for the following scholarships through Scholarships4Kats (https://shsu.academicworks.com/)

- Allene Susie Homan Memorial Library Science Endowed Scholarship
- Beatrice Craig Endowed Scholarship Fund
- Bonnie Baker Thorne Scholarship Fund
- Dr. Marie Hayden Scholarship Fund
- Former Library Science Professors Endowed Scholarship
- Homer Glen Cowan and Billie Caperton Cowan Educational Scholarship
- Janelle Avenell Paris Endowment for Library Science Scholarship Fund
- Sophie Williams Cloninger Library Science Endowed Scholarship Fund
- Virginia Gibbs Smyth Scholarship

Instructional Systems Design and Technology Scholarships

Apply through Scholarship4Kats (https://shsu.academicworks.com/)

Director/Chair: **Holly Ann Kizer Weimar**

Rosemarie M Brock, PHD (rmb043@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BA, Oklahoma State University

Jacqueline Beth Chetzron, PHD (jbc052@shsu.edu), *Lecturer of Library Public Services*, *Department of Library Sci & Technology*, PHD, Univ of North Texas; MLS, Texas Woman's University; MS, Univ of Texas At Austin; BA, Univ of Texas At Austin

Thomas S Edelberg, PHD (edelberg@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Indiana University; MA, California St Un-Northridge; BA, Univ of Calif-Los Angeles

Elizabeth A Gross, PHD (eag041@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Wayne State University; MLIS, Wayne State University; BA, Northern Michigan University

Dustin Michael Hebert, PHD (dmh104@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; EDSP, LSU & A&M College; MED, McNeese State University; BS, McNeese State University

Yao Huang, PHD (yxh051@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Florida State University; MS, The University of Memphis; BA, University of Electronic Science & Tech of China

Kimberly Campbell Kinnaird, PHD (kck017@shsu.edu), *Assistant Professor of Library Science*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BS, Texas A&M University

Kimberly N LaPrairie, PHD (knl007@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; MED, Univ of Louisiana-Lafayette; BBA, Henderson State University

Rebecca Maria Novotny, EDD (stdrmn11@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Sam Houston State University; MLS, Sam Houston State University; BA, Marymount College

Patrick Andrew Smith, MED (pas034@shsu.edu), *Adjunct Faculty*, *Department of Library Sci & Technology*, MED, Arizona State University; BA, West Liberty State College

Beverly Ann Smith-Edwards, PHD (bas076@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Univ of Oklahoma-Norman; MLIS, Univ of Oklahoma-Norman; BSED, Mayville State University

Holly Ann Kizer Weimar, EDD (hweimar@shsu.edu), *Professor and Chair of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Univ of Houston-Main; EDD, Univ of Houston-Main; MLS, Sam Houston State University; MLS, Sam Houston State University; BSED, Stephen F Austin University; BSED, Stephen F Austin University

Bachelor of Arts, Major in Learning Technologies

Code	Title	Hours
Bachelor of Arts, Major in Learning Technologies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
Major: Foundation		
ARTS 2370	Digital Photography and Media	3
ARTS 2375	Photographic Concepts	3
ARTS 3375	Web Site Development	3
COUN 3322	Career Development	3
CSTE 1330	Introduction to Computers	3
LETE 1301	Technology in Education	3
LETE 1302	Online Technology and Learning Strategies	3
LETE 1303	Learning Technology Tools	3
LETE 2301	Web Technologies for Learning	3
LETE 2302	Multimedia Learning Design & Development	3
LETE 2303	Systematic Evaluation & Development for Learning Design I	3
LETE 3301	Learning and Technology Foundations	3
LETE 3302	Learning Design	3
LETE 3303	Systematic Evaluation & Development for Learning Design II	3
LETE 4301	Seminar in Learning Technologies	3
LETE 4302	Field Experience in Learning Technologies	3
LETE 4303	Learning Technology Capstone	3
Major: Prescribed Electives		
Select three courses from the following:		9
EDUC 2302	Foundations of Public Education	
EDUC 2303	Introduction to Comparative Education	
EDUC 2304	Philosophical Influences on Educational Systems	
EDUC 3301	Issues in Education	
EDUC 3302	Educational Finance	
EDUC 3303	Science of Learning	
EDUC 3304	Educational Curriculum Design	
Minor: Required [2, 3]		
Select 18 hours of Minor courses (a minimum of 9 must be advanced hours)		18
Total Hours		**120**

1 MCOM 1130 is recommended to fulfill the one-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). COMS 1361 is recommended to satisfy the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Elective hours must lead to completion of a minor.

3 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area V (p. 90)	3
ENGL 1301[1]	3	ENGL 1302[1]	3
HSTY 1301[2]	3	HSTY 1302[2]	3
MCOM 1130	1	LETE 1301	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	COMS 1361[3]	3
Component Area VII (p. 90)	3	LETE 1303	3
CSTE 1330	3	Minor[5]	3
LETE 1302	3	POLS 2306[4]	3
POLS 2305[4]	3	Prescribed Electives[6]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
ARTS 2370	3	ARTS 2375	3
LETE 2301	3	LETE 2303	3
LETE 2302	3	LETE 3301	3
Minor[5]	3	Minor[5]	3
Prescribed Electives[6]	3	Prescribed Electives[6]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
ARTS 3375	3	COUN 3322	3
LETE 3302	3	LETE 4302	3
LETE 3303	3	LETE 4303	3
LETE 4301	3	Minor[5]	6
Minor[5]	3		
	15		**15**

Total Hours: 120

1. Satisfies Core Curriculum requirement for Component Area I (Communication).
2. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3. MCOM 1130 is recommended to fulfill the one-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option). COMS 1361 is recommended to satisfy the three-hour credit of the Core Curriculum requirement for Component Area IX (Component Area Option).
4. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5. Select 18 hours of Minor courses (a minimum of 9 must be advanced hours).
6. See Major: Prescribed Electives course listing below.

Code	Title	Hours
Major: Prescribed Electives [6]		
Select three courses from the following:		
EDUC 2302	Foundations of Public Education	3
EDUC 2303	Introduction to Comparative Education	3

EDUC 2304	Philosophical Influences on Educational Systems	3
EDUC 3301	Issues in Education	3
EDUC 3302	Educational Finance	3
EDUC 3303	Science of Learning	3
EDUC 3304	Educational Curriculum Design	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA, Major in Learning Technologies is designed to provide graduates with the following marketable skills:

- Evaluate the effectiveness of instructional technology.
- Design and develop instructional technology solutions.
- Solve instructional problems through technology.
- Use instructional technology to support learning.
- Enhance learning performance through technology.

School of Teaching and Learning

Chair: Dr. Kristina Vargo (kkv003@shsu.edu), 936-294-4099

Assistant Chair: Dr. Will Blackwell (whb004@shsu.edu), 936-294-3923

Assistant Chair: Dr. Tori Hollas (vxh004@shsu.edu), 936-294-3225

Website: School of Teaching and Learning (http://www.shsu.edu/academics/school-of-teaching-and-learning/)

Highlights

- Preparation of elementary, middle, and secondary teachers
- Field based experiences in school settings
- Research based curriculum
- Paid residency opportunities
- Close working relationship with faculty
- Field experience in diverse settings
- High pass rate on the Texas Examination of Educator Standards (TExES)
- Courses taught on the Huntsville campus, online, and the Woodlands Center campus

Suggested Minors

- Special Education can be designated as a minor for other degree programs.
- Early Childhood Education can be designated as a minor for other degree programs. This minor may be of interest to individuals who plan to work in various early childhood settings. This minor does not lead toward Texas Teacher Certification.
- Applied Behavior Analysis (ABA) minor can be designated as a minor for other degree programs. This minor is designed to provide students with a general understanding of the scientific application of behavioral principles to socially significant behaviors. This minor does not lead toward Texas Teacher Certification.

Program Specific Requirements

Required Field Experiences

Candidates for any teaching certificate participate in extensive field experiences in the public schools. Requirements for these activities vary by course and certification area. Teacher candidates must apply to and be accepted into the Educator Preparation Program (EPP) prior to placement in public schools.

Teacher candidates will apply for all field experiences in the Educator Preparation Services office. Teacher candidates will be provided teaching opportunities in public schools in all content areas and in diverse settings and placements. Teacher candidates seeking Special Education and Bilingual Education certification with the EC-6 Core will also complete coursework with field experiences in those specialized areas.

University students pursuing minors in the College of Education which do not lead to Texas Teacher Certification (SPED Minor, ABA Minor, and ECHE Minor) will conduct field experiences in appropriate settings in schools or in the community based on requirements of the individual course. Students will apply to the Educator Preparation Program as a non-certification seeking student.

Student teaching or year-long clinical teaching (YCT) is the culminating experience in a candidate's preparation to become a teacher. Candidates should enroll in student teaching or year-long residency the final year of their preparation program (Student Teaching (http://www.shsu.edu/academics/education/educator-preparation-services/program-services/field-experiences/level-III/)). For candidates seeking certification in Special Education or Bilingual Education, specific student teaching courses and placements are required. Candidates registered for nine hours during the student teaching semester are considered by SHSU to be full-time students.

Criminal background checks will be conducted on all teacher candidates/students placed in public schools and/or childcare centers for field placements. Badges will be provided for all field placements by the College of Education.

Bilingual Target Language Proficiency Test

Candidates seeking certification in Bilingual Education must demonstrate Spanish language proficiency in reading, writing, and speaking on the Bilingual Target Language Proficiency Test (BTLPT).

Career Opportunities

- Classroom Teachers
- Bilingual Education, Special Education, Mathematics, and Science are all high-need areas

Educator Preparation Program

The primary purpose of the Educator Preparation Program is to prepare teacher candidates to become exemplary teachers in elementary, middle, and secondary schools. The Educator Preparation Program provides the coursework necessary for candidates to receive certification for teaching grades PK-3, EC-6, 4-8, 7-12, and certain all-level subjects.

Certification Areas

- PK-3
- EC-6 Core (Generalist)
- EC-6 Bilingual Core (Generalist)
- EC-6 Core (Generalist) with EC-12 Special Education
- 4-8 Core (Generalist)
- 4-8 English-Language Arts and Reading (ELAR)
- 4-8 Social Studies
- 4-8 Science
- 4-8 Mathematics
- EC-12 Special Education for 4-8 and Secondary
- Secondary Education double major in content areas

Majors

- Bachelor of Science, Major in Education, EC-6 Core (p. 507)
- Bachelor of Science, Major in Education, EC-6 Core: 4+1 MED in Teaching & Learning (p. 510)
- Bachelor of Science, Major in Education, EC-6 Bilingual Core (p. 515)
- Bachelor of Science, Major in Education, EC-6 Bilingual Core: 4+1 MED in Teaching & Learning (p. 518)
- Bachelor of Science, Major in Education, EC-6 Special Education Core (p. 523)
- Bachelor of Science, Major in Education, EC-6 SPED Core: 4+1 MED in Teaching & Learning (p. 526)
- Bachelor of Science, Major in Education: 4-8 Core (p. 532)
- Bachelor of Science, Major in Education, 4-8 Core, 4+1 MED in Teaching & Learning (p. 535)
- Bachelor of Science, Major in Education: 4-8 ELAR (p. 540)
- Bachelor of Science, Major in Education, 4-8 ELAR: 4+1 MED in Teaching & Learning (p. 543)
- Bachelor of Science, Major in Education: 4-8 Mathematics (p. 548)
- Bachelor of Science, Major in Education, 4-8 Mathematics: 4+1 MED in Teaching & Learning (p. 551)
- Bachelor of Science, Major in Education: 4-8 Science (p. 556)
- Bachelor of Science, Major in Education, 4-8 Science: 4+1 MED in Teaching & Learning (p. 559)
- Bachelor of Science, Major in Education, 4-8 Social Studies (p. 564)
- Bachelor of Science, Major in Education, 4-8 Social Studies: 4+1 MED in Teaching & Learning (p. 567)
- Bachelor of Science, Major in Education, PK-3 (p. 572)
- Bachelor of Science, Major in Education, PK-3: 4+1 MED in Teaching & Learning (p. 574)
- Bachelor of Science, Major in Education, PK-3 Bilingual (p. 579)
- Bachelor of Science, Major in Education, PK-3 Special Education (p. 583)
- Bachelor of Science, Major in Education, Early Childhood Education (Does not lead to Texas Teacher Certification) (p. 587)

Double Majors

- Bachelor of Arts, Double Major in Education and English (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-english/)
- Bachelor of Arts, Double Major in Education and Mass Communication: Journalism (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/ba-education-and-mass-communication/)
- Bachelor of Arts, Double Major in Education and Spanish (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-spanish/#text)
- Bachelor of Science, Double Major in Education and Composite Science (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-composite-science/)
- Bachelor of Science, Double Major in Education and History (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-history/)
- Bachelor of Science, Double Major in Education and Interdisciplinary Agriculture (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-interdisciplinary-agriculture/)

- Bachelor of Science, Double Major in Education and Kinesiology (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-kinesiology/)
- Bachelor of Science, Double Major in Education and Mathematics (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-mathematics/)

Majors with Teaching Certification

- Bachelor of Fine Arts Major in Animation with Teaching Certification (p. 161)
- Bachelor of Fine Arts, Major in Graphic Design with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-graphic-design-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Photography with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-photography-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Studio Art 2D with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-studio-art-2d-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Studio Art 3D with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/art/bfa-studio-art-3d-with-teaching-certification/#text)
- Bachelor of Fine Arts, Major in Theatre with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/theatre-musical/bfa-theatre-with-teaching-certification/#text)
- Bachelor of Music, Major in Music with Teaching Certification: Choral (p. 291)
- Bachelor of Music, Major in Music with Teaching Certification: Choral/Piano (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-choral-piano/#text)
- Bachelor of Music, Major in Music with Teaching Certification: Instrumental (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-instrumental/#planofstudytext)
- Bachelor of Music, Major in Music with Teaching Certification: String (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-string/#text)
- Bachelor of Science, Major in Agricultural Business with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-business-with-teaching-certification/#text)
- Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-engineering-with-teaching-certification/#text)
- Bachelor of Science, Major in Animal Science with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-animal-science-with-teaching-certification/#text)
- Bachelor of Science, Major in Plant and Soil with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-plant-soil-sciences-with-teaching-certification/#text)

Minors

- M (p. 617)inor in Applied Behavior Analysis (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/applied-behavior-analysis/)
- Minor in Early Childhood Education (p. 618)
- Minor in Special Education (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/special-education-minor/)

Student Organizations

- Bilingual Education Student Organization (BESO)
- Diversity, Equity, and Inclusion Student Advisory Board
- College of Education Ambassadors
- Sam Houston Association for the Education of Young Children (SHAEYC)
- Sam Houston Student Council for Exceptional Children (SHCEC)
- Providing Smiles and Understanding Needs (PSUN)
- Texas Association of Future Educators (TAFE)

Director/Chair: **Kristina K Vargo**

Burcu Ates, PHD (bxa013@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MA, Michigan State University; BA, Middle East Technical Univ

Misti Michelle Babino, EDD (mme003@shsu.edu), *Adjunct Faculty*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BS, Sam Houston State University

Andrea Lynne Beerwinkle, PHD (alb086@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas Tech University; BA, Texas A&M University

Jamie Heintz Benson, EDD (jlh015@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BBA, Sam Houston State University

Helen Berg, PHD (hberg@shsu.edu), *Professor of Education and Associate Dean of COED*, *Department of Teaching & Learning*, PHD, Univ of Colorado; MED, Lesley College; BS, Univ of N Carolina-Greensboro

William Hollis Blackwell, EDD (whb004@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Boston University; EDM, Harvard University; BA, Colgate University

Megan M Bodish, MED (mmp021@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Susan C Bohan, MED (scb054@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, MED, Sam Houston State University; BAT, Sam Houston State University

Ashley Lauren Brittain, EDD (axb199@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Abilene Christian University; MED, Univ of Texas-Arlington

Lisa Ogle Brown, EDD (lob002@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Univ of Houston-Main; BS, Texas A&M University

Shanika Shonte Byars, MS (ssb046@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Jackson State University; BS, Alcorn State University

William John Calderhead, PHD (wjc011@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Oregon; MED, Univ of Maryland-College Park; MA, University of Virginia - SFS; BS, Univ of Maryland-College Park; BA, The Johns Hopkins University

Benjamin Aaron Cantu, MA (bcantu@shsu.edu), *Assoc Dir of Visitors Services, Adjunct*, *Department of Teaching & Learning*, MA, Sam Houston State University; BS, East Texas Baptist University

Gloria F Carter, MED (gfc002@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Transfer College; BS, Transfer College

Corinna O Cole, PHD (lls_cvc@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Sam Houston State University

Wanda Renee Coleman, MED (wrc011@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BAT, Sam Houston State University

Alma Linda Contreras-Vanegas, PHD (alc058@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Jaime Leigh Coyne, PHD (jlb110@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Stephen F Austin University; BS, Sam Houston State University

Chuck D Deaton, MED (cdd042@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BFA, Univ of Houston-Main

Maria Cristina Diaz, MED (mcd010@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Clayton Reed Dodson, PHD (crd073@shsu.edu), *Assistant Professor of Practice for Education*, *Department of Teaching & Learning*, PHD, University of North Dakota; MED, University of North Dakota; BSED, Mayville State University

Melissa Paige Donham, PHD (mpd028@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Baylor University; MA, Baylor University; BA, Univ of Mary Hardin Baylor

Stacy Knudson Downs, MED (stdskd21@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Texas State Univ-San Marcos; BA, Angelo State University

Jaime Betancourt Duran, PHD (jbd023@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Univ of Texas-Pan American; BA, Univ of Texas-Pan American

Patricia Marie Durham, PHD (pmd006@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M-Corpus Christi; MS, Texas A&M-Corpus Christi; BS, Texas Tech University

Madison Elyse Edgar Mathis, MED (madyedgarmathis@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Univ of Texas At Austin

William D. Edgington, EDD (wedgington@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Midwestern State University; BSED, Texas Christian University

Andrea S Foster, PHD (asf004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Texas A&M University

Jennifer Franz-Melady, MA (jxf110@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MA, University of Tulsa; BM, Univ of Rochester

Melissa Dawn Gatlin, PHD (mdg089@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Capella University; MED, Stephen F Austin University; MBA, Univ of St Thomas; BBA, Stephen F Austin University

Hannah R Gerber, PHD (hrg004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Alabama-Tuscaloosa; MS, Florida State University; BA, Florida State University

Amber Joyce Godwin, PHD (ajg007@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Univ of West Florida

Kim H Graham, MED (kxg083@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Texas State Univ-San Marcos; BS, Texas State Univ-San Marcos

Salandra Deshawn Grice-Johnson, PHD (sxg247@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; EDM, Texas A&M University; BA, Univ of Texas-San Antonio

Pooja Gupta, EDD (pxg055@shsu.edu), *Clinical Assistant Professor of Special Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MS, Univ of Houston-Clear Lake; BED, Women's University; BC, University of Bombay

Christina Marie Gushanas, PHD (cgushanas@shsu.edu), *Eleanor and Charles Garrett Endowed Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Lamar University

Christina Marie Hammons, EDD (cmh085@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Univ of Houston-Main; BS, Univ of Houston-Main

Susan Renee Harte, EDD (susanharte@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, East Texas A&M; MED, Lamar University; MA, Univ of Nebraska-Omaha; BSED, Peru State College

Marsha Pleshette Heard, EDD (mph030@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Univ of Texas-Arlington; MS, Univ of Houston-Clear Lake; BS, Houston Christian University; BS, Houston Christian University

Amy Kathleen Heath, PHD (stdakt13@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; BS, Sam Houston State University

Desiree Gretchen Hickman, EDD (dgh029@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Jackson State University; MS, Jackson State University; BS, Alcorn State University

Tracey Samantha Hodges, PHD (traceyhodges@shsu.edu), *Associate Professor of Curriculum and Instruction*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Victoria Smith Hollas, PHD (torihollas@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; BA, Houston Christian University

Maxie Hollingsworth-Latimer, EDD (mxh209@shsu.edu), *Lecturer-Pool Faculty of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MSW, Howard University; BA, Univ of Michigan-Ann Arbor; BA, Univ of Michigan-Ann Arbor; BA, Univ of Michigan-Ann Arbor

Janice Marie Hudson, MED (jmh084@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Lamar University

Jacqueline M Ingram, EDD (jmi002@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Texas A&M University; BS, Texas A&M University

Suzanne Smith Jones, MED (ssj027@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, MED, Univ of St Thomas; BS, Texas A&M University

Allen W. Kaminski, MS (awk002@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Sam Houston State University; BS, Sam Houston State University

Leigh Anne Klawinsky, MED (stdlap12@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Andrey Vitalyevich Koptelov, PHD (axk022@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Academy of Pedagogical Science; BED, Kirov State Pedagogical Inst

Brittany Lynn Kutter, MED (blk009@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BA, Baylor University; BA, Baylor University

Leena Jo Landmark, PHD (landmark@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Mae Ann Lane, EDD (mal024@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, East Texas A&M; BA, Abilene Christian University

Michael Marsh, MED (mxm177@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Southeastern Oklahoma St Univ

Amy Elizabeth Matthews, EDD (aeb131@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of St Thomas; MED, Texas A&M University; BS, Baylor University

Kerry Gordon Mc Arthur, PHD (kgm051@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, PHD, Univ of Arizona; MED, Univ of Houston-Main; BSED, Texas Tech University

Joyce Kay McCauley, PHD (edu_jkm@shsu.edu), *Distinguished Professor of Education*, *Department of Teaching & Learning*, PHD, Texas Woman's University; MED, Univ of Guam; BA, Univ of South Florida

Patricia Ann McClure, MED (trish.mcclure@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BAT, Sam Houston State University

Edna Sue McMillan, MS (esm021@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Univ of Houston-Clear Lake; BS, Texas College

Jessica Ann McQueston, PHD (jam391@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Wisconsin-Madison; MA, Univ of New Mexico; BSED, Univ of New Mexico; CERT, Univ of New Mexico

Kayla Dee Middleton, EDD (kdm136@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Liberty University; MA, National University; BA, National University

Melinda Sue Miller, PHD (lls_msm@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BSED, Univ of Texas At Austin

Jennifer Dydo Morrison, PHD (jdm214@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Nevada-Reno; MS, Western Maryland Col; BS, William & Mary College

Katie Elaine Moses, EDD (kem144@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Lamar University; MED, Stephen F Austin University; BS, Stephen F Austin University

Diana Kay Nabors, EDD (lls_dkn@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Univ of Houston-Main

Albert Nardone, PHD (ajn007@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, PHD, Univ of New Mexico; MED, Sul Ross State University; MED, Sul Ross State University; MA, New York University; BSED, Peru State College

Lautrice Mc Carty Nickson, PHD (lmn005@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Prairie View A&M University; MED, Sam Houston State University; MED, Loyola University Maryland; BS, Mississippi State University

Jimmy D Nowell, EDD (jdn040@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Univ of Houston-Main; MM, Rice University; BME, Baylor University

Jill Saundra Pagels, EDD (jsp018@shsu.edu), *Clinical Assistant Professor of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Univ of Arizona

Michelle Renae Parker, EDD (stdmrh14@shsu.edu), *Assistant Professor of Practice of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Sam Houston State University

Mary Ann Petron, PHD (map042@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MA, Northwestern University; BSED, Univ of Wisconsin-Madison

Prasopsuk Yabsantiya Pinto, EDD (pyp001@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MS, Texas A&M-Kingsville; BED, Chulalongkorn University

Jalene Paige Potter, PHD (jpp015@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M-Corpus Christi; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

Debra Patricia Price, PHD (edu_dpp@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MED, LSU & A&M College; BS, Univ of Colorado

Rosa Martinez Readore, EDD (stdrmv11@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Sam Houston State University

Jolene Buxton Reed, PHD (jreed@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of New Mexico; MA, Univ of New Mexico; BS, Brigham Young University

Charlotte Neleen Royall, MM (cnr039@shsu.edu), *Lecturer-Pool Faculty (COE)*, *Department of Teaching & Learning*, MM, Sam Houston State University; BM, Univ of Houston-Main

Melissa Banik Saphos, MED (mbs051@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Univ of Texas-Arlington; BS, Sam Houston State University

Abdelilah Salim Sehlaoui, EDD (asehlaoui@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Mohamed Ben Abdellah Univ

Valeece Linyae Simmons-Davis, EDD (vls035@shsu.edu), *Assistant Professor of Practice in Education*, *Department of Teaching & Learning*, EDD, Univ of Louisiana-Monroe; MED, Northwestern St Un of Louisana; BS, McNeese State University

Dodie Janice Spencer, EDD (stddjs15@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Sam Houston State University; BA, Sam Houston State University

Jeffrey Alan Springer, EDD (jas282@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Concordia University; MSSC, U.S. Sports Academy; BAT, Sam Houston State University

Abbie Ruth Strunc, PHD (abbie.strunc@shsu.edu), *Professor of Education and Associate Dean, College of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MED, Texas A&M University; BA, Texas A&M University

Jamie Lane Thompson, EDD (jamiethompson@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BS, Sam Houston State University

Veronica Diana Tristan, EDD (vdt001@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Downtown; MED, Sam Houston State University; BA, Univ of Houston-Downtown

Francisco Usero Gonzalez, PHD (fug002@shsu.edu), *Assistant Professor of School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Univ of Houston-Main

Baburhan Uzum, PHD (uzum@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Michigan State University; MA, Middle East Technical Univ; BA, Middle East Technical Univ

Tina Michelle Valenzuela, EDD (tmv017@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Kansas State University; MS, Pittsburg State University; BS, Pittsburg State University

Mayra Danielle Vargas, PHD (mdv026@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BS, Sam Houston State University

Kristina K Vargo, PHD (kkv003@shsu.edu), *Professor of Education and Chair, School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Southern Illinois U-Carbondale; MS, Southern Illinois U-Carbondale; BS, Univ of Wisconsin-Eau Claire

Tracy Lynn Voelker, MED (tlv013@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, MED, Univ of Houston-Victoria; BS, Texas State Univ-San Marcos

Rachel Henderson Warren, MED (stdrhw11@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Stephen F Austin University

Cheryl M Watts, MED (cmw022@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Univ of North Texas; BAT, Sam Houston State University

Rebecca Ann Wentworth, PHD (raw034@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Colorado State University; MED, Oakland University; BSED, Central Michigan Univ

Linda Ransdell Wilmoth, MED (stdlrw11@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Mary K. Wisenbaker, EDD (mkw033@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MA, Sam Houston State University; BA, Univ of Houston-Main

Paul J Worosello, MM (pjw009@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MM, West Texas A&M State Univ; BM, West Texas A&M State Univ

Audrey Gwen Young, EDD (agy008@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Stephen F Austin University; MED, National-Loouis Univers; BA, Univ of Central Florida

Chase Jonathan Young, PHD (cxy010@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MS, Walden University; BA, Metropolitan St Univ of Denver

Bachelor of Science, Major in Education, EC-6 Core

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, EC-6 Core		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
BIOL 1436	Foundations Of Science [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
MATH 1385	Introduction to Foundations of Mathematics II	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab [5]	4
Major: Foundation		
BESL 3301	Second Language Acquisition [6]	3
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3302	Early Childhood Education Theories	3
ECHE 3325	Creative Arts for Educators	3
ECHE 4343	Curriculum for Early Childhood [7]	3
EDUC 1101	Educator Preparation	1
HSTY 3384	Texas History	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3315	Teaching Multiple Literacies [8]	3
READ 3380	Emergent & Beginning Literacy [8]	3
SPED 2301	Introduction to Exceptionality	3
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
CIEE 3343	Curriculum and Assessment [9]	3
CIEE 3385	Creating Positive Classroom Communication [9]	3
Field Experience II		
READ 3383	Reading Methods and Assessment - Elementary [8]	3
READ 3384	Language Arts Methods and Assessment - Elementary [8]	3
TESL 3313	English Second Language Methodology I [10]	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
YCT Semester I		
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
CIEE 4391	Student Teaching Elementary School	3
TESL 4314	English Second Language Methodology II	3

YCT Semester II		
CIEE 4392	Student Teaching Elementary School	3
EDUC 4301	Teacher Education Capstone	3
Minor: Not Required [11, 12]		
Total Hours		**122**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
2 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.
3 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major. Substitute courses may be considered.
4 COMS 2382 is suggested to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option). CAMX 2301 is suggested to satisfy the Core Curriculum requirement for Component Area V (Creative Arts). GEOG 1300 or BESL 2301 is suggested to satisfy the Core Curriculum requirement for Component Area VII (Social and Behavioral Sciences).
5 PHYS 1305 and PHYS 1105 is preferred. Substitute courses may be considered.
6 BESL 3301 is a prerequisite for TESL 3313.
7 ECHE 4343 is best taken with Field Block 1 or Field Block 2. The course can be taken during another semester to obtain full time status This course requires active field experience in a Pre-Kindergarten or Kindergarten classroom during the semester taken.
8 Either READ 3315 or READ 3380 is a prerequisite for READ blocks.
9 CIEE 3343 and CIEE 3385 are taken in field 1. Field experiences required.
10 TESL 3313 is a prerequisite for TESL 4314.
11 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
12 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)[1]	3	Component Area VIII (p. 90)[1]	3
BIOL 1408[2]	4	CIEE 2333	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385	3
		POLS 2305[6]	3
	16		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[1]	4	BIOL 1436[2]	4

EDUC 1101		1 CIEE 3374	3
ENGL 2332 or 2333[7]		3 MATH 3381	3
PHYS 1305 & PHYS 1105[8]		4 READ 3315[9]	3
POLS 2306[6]		3 READ 3380[9]	3
SPED 2301		3	
		18	**16**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[10]		3 ECHE 4343[12]	3
CIEE 3334		3 READ 3383	3
CIEE 3343[11]		3 READ 3384	3
CIEE 3385[11]		3 SPED 3301	3
ECHE 3325		3 TESL 3313[13]	3
HSTY 3384		3	
		18	**15**

Fourth Year

Fall	Hours	Spring	Hours
CIEE 3335		3 CIEE 4392	3
CIEE 3336		3 EDUC 4301	3
CIEE 4391		3	
ECHE 3302		3	
TESL 4314		3	
		15	**6**

Total Hours: 122

1. COMS 2382 is suggested to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option). CAMX 2301 is suggested to satisfy the Core Curriculum requirement for Component Area V (Creative Arts). GEOG 1300 or BESL 2301 is suggested to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
2. BIOL 1408 and BIOL 1436 are preferred to satisfy the requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.
3. Satisfies Core Curriculum requirement for Component Area I (Communication).
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.
6. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7. ENGL 2332 or ENGL 2333 is preferred to satisfy the requirement for Component Area IV (Language, Philosophy, and Culture) and the major. Substitute courses may be considered.
8. PHYS 1305 and PHYS 1105 is preferred. Substitute courses may be considered.
9. Either READ 3315 or READ 3380 is a prerequisite for READ blocks.
10. BESL 3301 is a prerequisite for TESL 3313.
11. CIEE 3343 and CIEE 3385 are taken with Field block 1. Field experiences required.
12. ECHE 4343 is best taken with Field Block 1 or Field Block 2. The course can be taken in other semesters to obtain full time status. Active Field Experience in Kindergarten or Pre-Kindergarten is required during the semester taken.
13. TESL 3313 is a prerequisite for TESL 4314.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, EC-6 Core is designed to provide graduates with the following marketable skills:

- Prepared to teach all content areas necessary for EC-6 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, EC-6 Core: 4+1 Master of Education in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, EC-6 Core: 4+1 Master of Education in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4

BIOL 1436	Foundations Of Science [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
MATH 1385	Introduction to Foundations of Mathematics II	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	4
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3302	Early Childhood Education Theories	3
ECHE 3325	Creative Arts for Educators	3
EDUC 1101	Educator Preparation	1
HSTY 3384	Texas History	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3315	Teaching Multiple Literacies [8]	3
READ 3380	Emergent & Beginning Literacy [8]	3
SPED 2301	Introduction to Exceptionality	3
Major: Prescribed Electives		
Education Electives (5000-6000)		4
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
CIEE 3343	Curriculum and Assessment [9]	3
CIEE 3385	Creating Positive Classroom Communication [9]	3
Field Experience II		
ECHE 4343	Curriculum for Early Childhood [10]	3
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7]	3
YCT Semester I		
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
CIEE 4391	Student Teaching Elementary School	3
TESL 4314	English Second Language Methodology II [7]	3
4+1 MED Teaching and Learning [11]		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5383	Integrating Current Technologies in Education	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5393	Assessment and Accountability	3
CIED 5398	Practicum in Classroom Instruction I	3
CIED 5399	Practicum in Classroom Instruction II	3
SPED 5301	Education of Individuals with Disabilities	3
Minor: Not Required [12,13]		
Total Hours		**150**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.

2 BIOL 1408 and BIOL 1436 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.

3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavorial Science), GEOG 1300 OR BESL 2301 is suggested.
6 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), COMS 2382 is suggested.
7 BESL 3301 is the prerequisite for TESL 3313 and TESL 3313 is the prerequisite for TESL 4314.
8 READ 3315 and READ 3380 are prerequisites for READ blocks.
9 CIEE 3343 and CIEE 3385 are taken in Field Experience 1. Field experiences required.
10 ECHE 4343 requires field experience in Pre-Kindergarten or Kindergarten during the semester taken. It is highly advised to take this course with Field Block 1 or Field Block 2. If needed for full time enrollment status during Year-Long Residency it can be taken at that time, knowing field component is required in Pre-K or K.
11 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their Internship placement.
12 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours
13 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

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First Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)[1]	3	Component Area VIII (p. 90)[6]	3
BIOL 1408[2]	4	CIEE 2333	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385	3
		POLS 2305[7]	3
	16		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[8]	4	BIOL 1436[2]	4
EDUC 1101	1	CIEE 3374	3
ENGL 2332 or 2333[9]	3	MATH 3384	3
PHYS 1305 & PHYS 1105	4	READ 3315[10]	3
POLS 2306[7]	3	READ 3380[10]	3
SPED 2301	3		
	18		**16**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[11]		3 ECHE 4343[13]	3
CIEE 3334		3 READ 3383	3
CIEE 3343[12]		3 READ 3384	3
CIEE 3385[12]		3 TESL 3313[11]	3
ECHE 3325		3 SPED 3301	3
HSTY 3384		3	
	18		**15**

Fourth Year

Fall	Hours	Spring	Hours
CIEE 3335		3 CIED 5383	3
CIEE 3336		3 CIED 5393	3
CIEE 4391		3 Education Electives (5000-6000)	4
ECHE 3302		3 SPED 5301	3
TESL 4314[11]		3	
	15		**13**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318		3 CIED 5370		3 CIED 5371	3
CIED 5398		3 CIED 5399		3 CIED 5382	3
				CIED 5390	3
	6		**6**		**9**

Total Hours: 150

1 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
2 BIOL 1408 and BIOL 1436 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
3 Satisfies Core Curriculum requirement for Component Area I (Communication).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major
6 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Science), GEOG 1300 OR BESL 2301 is suggested.
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), COMS 2382 is suggested.
9 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
10 READ 3315 and READ 3380 are prerequisites for READ blocks.
11 BESL 3301 is the prerequisite for TESL 3313, and TESL 3313 is the prerequisite for TESL 4314.
12 CIEE 3385 and CIEE 3385 are taken in Field Experience 1. Field experiences required.
13 ECHE 4343 requires field experience in Pre-Kindergarten or Kindergarten during the semester taken. It is highly advised to take this course with Field Block 1 or Field Block 2. If needed for full time enrollment status during Year-Long Residency it can be taken at that time, knowing field component is required in Pre-K or K.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours

All minors can be paired with this degree program.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

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The BS, Major in Education, EC-6 Core: 4+1 MED in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach all content areas necessary for EC-6 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, EC-6 Bilingual Core

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Code	Title	Hours
Bachelor of Science, Major in Education, EC-6 Bilingual Core		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
MATH 1385	Introduction to Foundations of Mathematics II	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab [6]	4
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
BESL 4301	Spanish Fluency In Classroom	3
BIOL 1436	Foundations Of Science [2]	4
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3302	Early Childhood Education Theories	3
EDUC 1101	Educator Preparation	1
HSTY 3384	Texas History	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
Major: Required		
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
CIEE 3343	Curriculum and Assessment [8]	3
CIEE 3385	Creating Positive Classroom Communication [8]	3
Field Experience II		
ECHE 4343	Curriculum for Early Childhood [9]	3
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
TESL 3313	English Second Language Methodology I [7]	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
YCT Semester I		
BESL 4303	Curriculum In Bilingual and Second Language Programs	3
BESL 4304	Language Learning & Literacy Dev in Multilingual Students	3
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3

CIEE 4391	Student Teaching Elementary School	3
YCT Semester II		
BESL 4305	Academic Language in Dual Language Programs	3
BESL 4320	Student Teaching in the Bilingual/ESL Classroom	3
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
Minor: Not Required [10, 11]		
Total Hours		**125**

1 MATH 1384 satisfies the requirement for Component Area II (Mathematics) as well as the major.
2 BIOL 1408 and BIOL 1436 are preferred to satisfy the requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.
3 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major. Substitute courses may be considered.
4 CAMX 2301 is recommended to satisfy the Core Curriculum requirement for Component Area V (Creative Arts).
5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) GEOG 1321 or BESL 2301 is suggested.
6 PHYS 1305 and PHYS 1105 is preferred. Substitute courses may be considered.
7 BESL 3301 is the prerequisite for TESL 3313.
8 CIEE 3343 and CIEE 3385 are best taken with Field Block 1. Field experiences required.
9 ECHE 4343 is best taken with Field Block 1 or Field Block 2. The course can be taken in other semesters to obtain full time status. Active Field Experience in Kindergarten or Pre-Kindergarten is required during the semester the course is taken.
10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
11 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I and YCT Semester II.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II.

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First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area V (p. 90)[1]	3	Component Area VI (p. 90)[2]	3
Component Area VI (p. 90)[2]	3	Component Area VII (p. 90)[5]	3
BIOL 1408[3]	4	Component Area VIII (p. 90)[6]	3
MATH 1384[4]	3	Component Area IX (p. 91)	3
		MATH 1385	3
	16		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)[5]		3 BIOL 1436[3]	4
Component Area IX (p. 91)		1 CIEE 3374	3
CIEE 2333		3 MATH 3381	3
EDUC 1101		1 READ 3380	3
ENGL 2332 or 2333[7]		3	
PHYS 1305 & PHYS 1105[8]		4	
SPED 2301		3	
		18	**13**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[9]		3 BESL 4301	3
CIEE 3334		3 ECHE 4343[11]	3
CIEE 3343[10]		3 READ 3383	3
CIEE 3385[10]		3 READ 3384	3
HSTY 3384		3 TESL 3313[9]	3
		SPED 3301	3
		15	**18**

Fourth Year

Fall	Hours	Spring	Hours
BESL 4303		3 BESL 4305	3
BESL 4304		3 BESL 4320 or CIEE 4392	3
CIEE 3335		3 ECHE 3302	3
CIEE 3336		3 EDUC 4301	3
CIEE 4391		3	
		15	**12**

Total Hours: 125

1 CAMX 2301 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

2 HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).

3 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.

4 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.

5 POLS 2305 and POLS 2306 satisfy the Core Curriculum requirement for Component Area VII (Political Science/Government).

6 GEOG 1321 or BESL 2301 is recommended to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

7 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major. Substitute courses may be considered.

8 PHYS 1305 and PHYS 1105 is preferred. Substitute courses may be considered.

9 BESL 3301 is a prerequisite for TESL 3313.

10 CIEE 3343 and CIEE 3385 are best taken with Field Block 1. Field experiences required.

11 ECHE 4343 is best taken with Field Block 1 or Field Block 2 but can be taken during other semesters to obtain full time status. Student are required to complete active field involvement in a kindergarten or prekindergarten during the semester the course is taken.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I and YCT Semester II.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, EC-6 Bilingual Core is designed to provide graduates with the following marketable skills:

- Prepared to teach all content areas necessary for EC-6 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.
- Prepared to teach in high-need field of bilingual education.

Bachelor of Science, Major in Education, EC-6 Bilingual Core: 4+1 MED in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

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Code	Title	Hours
Bachelor of Science, Major in Education, EC-6 Bilingual Core: 4+1 MED in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option)		4

Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
CAMX 2301	Creative Arts Seminar [4]	3
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
MATH 1385	Introduction to Foundations of Mathematics II	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	4
Major: Foundation		
BESL 3301	Second Language Acquisition [6]	3
BESL 4301	Spanish Fluency In Classroom	3
BIOL 1436	Foundations Of Science [2]	4
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3302	Early Childhood Education Theories	3
EDUC 1101	Educator Preparation	1
HSTY 3384	Texas History	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
Major: Prescribed Electives		
Education Electives (5000-6000)		3
Major: Required		
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
CIEE 3343	Curriculum and Assessment	3
CIEE 3385	Creating Positive Classroom Communication [7]	3
Field Experience II		
ECHE 4343	Curriculum for Early Childhood [8]	3
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [6]	3
YCT Semester I		
BESL 4303	Curriculum In Bilingual and Second Language Programs	3
BESL 4304	Language Learning & Literacy Dev in Multilingual Students	3
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
CIEE 4391	Student Teaching Elementary School	3
4+1 MED Pre-Internship		
BESL 4305	Academic Language in Dual Language Programs	3
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 5301	Education of Individuals with Disabilities	3
4+1 MED Teaching & Learning [9]		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5398	Practicum in Classroom Instruction I	3

CIED 5399	Practicum in Classroom Instruction II	3
Minor: Not Required [10, 11]		
Total Hours		**152**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
2 BIOL 1408 and BIOL 1436 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
3 ENGL 2332 or ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
4 CAMX 2301 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
5 GEOG 1300 or BESL 2301 are suggested to satisfy Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 BESL 3301 is the prerequisite for TESL 3313.
7 CIEE 3385 is best taken with Field Block 1 or Field Block 2. The course can be taken during another semester to obtain full time status. Field experiences required.
8 ECHE 4343 requires field experience in Pre-Kindergarten or Kindergarten during the semester taken. It is highly advised to take this course with Field Block 1 or Field Block 2. If needed for full time enrollment status during Year-Long Residency it can be taken at that time, knowing field component is required in Pre-K or K.
9 Students admitted into the MED in Teaching and Learning as part of the 4+1 program may satisfy their YLR requirement with the MED Internship coursework and 4 additional free elective hours. Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-internship semester to be eligible for their Internship placement.
10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.
11 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I and YCT Semester II.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 1408[1]	4	Component Area VIII (p. 90)[6]	3
CAMX 2301[2]	3	CIEE 2333	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385	3
		POLS 2305[7]	3
	16		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	Component Area IX (p. 91)	1
EDUC 1101	1	BIOL 1436[1]	4

ENGL 2332 or 2333[8]	3	CIEE 3374	3
PHYS 1305 & PHYS 1105	4	MATH 3381	3
POLS 2306[7]	3	READ 3380	3
SPED 2301	3		
	17		**14**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[9]	3	BESL 4301	3
CIEE 3334	3	ECHE 4343[11]	3
CIEE 3343	3	READ 3383	3
CIEE 3385[10]	3	READ 3384	3
HSTY 3384	3	SPED 3301	3
		TESL 3313[9]	3
	15		**18**

Fourth Year

Fall	Hours	Spring	Hours
BESL 4303	3	BESL 4305[12]	3
BESL 4304	3	CIED 5383[12]	3
CIEE 3335	3	CIED 5393[12]	3
CIEE 3336	3	Education Electives (5000-6000)	3
CIEE 4391	3	SPED 5301[12]	3
ECHE 3302	3		
	18		**15**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318	3	CIED 5370	3	CIED 5371	3
CIED 5398	3	CIED 5399	3	CIED 5382	3
				CIED 5390	3
	6		**6**		**9**

Total Hours: 152

1 BIOL 1408 and BIOL 1436 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
2 CAMX 2301 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
3 Satisfies Core Curriculum requirement for Component Area I (Communication).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
6 GEOG 1300 or BESL 2301 are suggested to satisfy Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8 ENGL 2332 or ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
9 BESL 3301 is the prerequisite for TESL 3313.
10 CIEE 3385 is best taken with Field Block 1 or Field Block 2. The course can be taken during another semester to obtain full time status. Field experiences required.
11 ECHE 4343 can be taken only once; however, students may choose to wait and take the course as part of Year Long Semester II, if needing full-time (12 SCH) status.
12 Students admitted into the MED in Teaching and Learning as part of the 4+1 program may satisfy their YLR requirement with the MED Internship coursework and 4 additional free elective hours. Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-internship semester to be eligible for their Internship placement.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YLR Semester I and YLR Semester II.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Students admitted into the MED in Teaching and Learning as part of the 4+1 program may satisfy their YCT requirement with the MED Internship coursework and 4 additional free elective hours. Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-internship semester to be eligible for their Internship placement.

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-internship semester to be eligible for their Internship placement.

Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through TK20
- Current undergraduate transcript demonstrating a minimum 3.15 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited. The top candidates from the initial application review will progress to a group interview and must also submit:

- a video recording of themselves conducting a 20-30 minute lesson in a K-12 classroom
- an in-person writing sample

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, EC-6 Bilingual Core: 4+1 MED in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach all content areas necessary for EC-6 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.
- Prepared to teach in high-need field of bilingual education.

Bachelor of Science, Major in Education, EC-6 Special Education Core

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, EC-6 Special Education Core		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
BIOL 1436	Foundations Of Science [2]	4
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
EDUC 1101	Educator Preparation	1
HSTY 3384	Texas History	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
SPED 3302	Emotional/Behavioral Disorders	3
SPED 3303	Supporting Social Success	3
SPED 3312	Family and Diversity Issues in Special Education	3
Major		
MATH 1385	Introduction to Foundations of Mathematics II	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab [8]	4
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
CIEE 3343	Curriculum and Assessment [9]	3
CIEE 3385	Creating Positive Classroom Communication [9]	3
Field Experience II		
ECHE 4343	Curriculum for Early Childhood [10]	3
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7, 11]	3
YCT Semester I		
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
CIEE 4391	Student Teaching Elementary School	3

SPED 4311	Content Learning in Special Education	3
TESL 4314	English Second Language Methodology II [11]	3
YCT Semester II		
CIEE 4392	Student Teaching Elementary School	3
EDUC 4301	Teacher Education Capstone	3
SPED 4304	Transition Planning in Special Education	3
ECHE 3325	Creative Arts for Educators	3
Minor: Not Required [12, 13]		
Total Hours		**131**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
2 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major. Substitute courses may be considered.
3 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major. Substitute courses may be considered.
4 CAMX 2301 is recommended to satisfy the Core Curriculum requirement for Component Area V (Creative Arts).
5 GEOG 1300 or BESL 2301 is suggested to satisfy Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 COMS 2382 is suggested to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).
7 BESL 3301 is the prerequisite for TESL 3313.
8 PHYS 1305 and PHYS 1105 is preferred. Substitute courses may be considered.
9 CIEE 3343 and CIEE 3385 are taken in Field 1. Field experiences required.
10 ECHE 4343 is best taken with Field Block 1 or Field Block 2 though it can be taken during other semesters to obtain full time enrollment. ECHE 4343 requires active field experience in a kindergarten or pre-kindergarten classroom during the semester taken.
11 TESL 3313 is a prerequisite for TESL 4314.
12 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
13 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, Field Experience III and Student Teaching.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience I, Field Experience II, Field Experience III, and Student Teaching.

Year-Long Clinical Teaching Option:

Candidates have the opportunity to select the Year-Long Clinical Teaching option in lieu of traditional student teaching. In this program, teacher candidates are immersed in the culture of one campus for an entire academic year, rather than the one semester of traditional student teaching. This extended clinical experience provides an in-depth bridge between theory and practice in a supportive environment. For more information contact the School of Teaching and Learning (https://www.shsu.edu/academics/school-of-teaching-and-learning/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area V (p. 90)[1]		3 Component Area VI (p. 90)[2]	3

Component Area VI (p. 90)[2]	3	Component Area VII (p. 90)[5]	3
BIOL 1408[3]	4	Component Area VIII (p. 90)[6]	3
MATH 1384[4]	3	Component Area IX (p. 91)[7]	1
		MATH 1385	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[7]	3	Component Area VII (p. 90)[5]	3
CIEE 2333	3	CIEE 3374	3
EDUC 1101	1	MATH 3381	3
ENGL 2332 or 2333[8]	3	READ 3380	3
PHYS 1305 & PHYS 1105[9]	4	SPED 3303	3
SPED 2301	3	SPED 3312	3
	17		**18**

Third Year

Fall	Hours	Spring	Hours
BIOL 1436[3]	4	ECHE 3325	3
BESL 3301[10]	3	READ 3383	3
CIEE 3334	3	READ 3384	3
CIEE 3343	3	SPED 3301	3
CIEE 3385[11]	3	TESL 3313[10, 12]	3
HSTY 3384	3		
	19		**15**

Fourth Year

Fall	Hours	Spring	Hours
CIEE 3335	3	CIEE 4392	3
CIEE 3336	3	EDUC 4301	3
CIEE 4391	3	ECHE 4343[13]	3
SPED 3302	3	SPED 4304	3
SPED 4311	3		
TESL 4314[12]	3		
	18		**12**

Total Hours: 131

1 CAMX 2301 is recommended to satisfy the Core Curriculum requirement for Component Area V (Creative Arts).

2 HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).

3 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.

4 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.

5 POLS 2305 and POLS 2306 satisfy the Core Curriculum requirement for Component Area VII (Political Science/Government).

6 GEOG 1300 or BESL 2301 is suggested to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and COMS 2382 is suggested to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).

7 COMS 2382 is suggested for Component Area IX (Component Area Option).

8 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture and the major. Substitute courses may be considered.

9 PHYS 1305 and PHYS 1105 is preferred. Substitute courses may be considered.

10 BESL 3301 is a prerequisite for TESL 3313

11 CIEE 3385 is best taken with Field Block 1 or Field Block 2. The course can be taken during another semester to obtain full time status. Field experiences required.

12 TESL 3313 is a prerequisite for TESL 4314

13 ECHE 4343 is best taken with Field Block 1 or Field Block 2 though it can be taken during other semesters to obtain full time enrollment. ECHE 4343 requires active field experience in a kindergarten or pre-kindergarten classroom during the semester taken

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, Field Experience III and Student Teaching.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience I, Field Experience II, Field Experience III, and Student Teaching.

Year-Long Clinical Teaching Option:

Candidates have the opportunity to select the Year-Long Clinical Teaching option in lieu of traditional student teaching. In this program, teacher candidates are immersed in the culture of one campus for an entire academic year, rather than the one semester of traditional student teaching. This extended clinical experience provides an in-depth bridge between theory and practice in a supportive environment. For more information contact the School of Teaching and Learning staff.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, EC-6 Special Education Core is designed to provide graduates with the following marketable skills:

- Prepared to teach all content areas necessary for EC-6 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.
- Prepared to teach in high-need field of special education, grades K-12.

Bachelor of Science, Major in Education, EC-6 SPED: 4+1 Master of Education in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, EC-6 SPED: 4+1 Master of Education in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
CAMX 2301	Creative Arts Seminar [4]	3
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
BIOL 1436	Foundations Of Science [2]	4
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
EDUC 1101	Educator Preparation	1
HSTY 3384	Texas History	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
SPED 3303	Supporting Social Success	3
SPED 3305	Assessment Practices in Special Education	3
SPED 3312	Family and Diversity Issues in Special Education	3
Major: Prescribed Electives		
MATH 1385	Introduction to Foundations of Mathematics II	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	4
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
CIEE 3343	Curriculum and Assessment	3
CIEE 3385	Creating Positive Classroom Communication [9]	3
Field Experience II		
ECHE 3325	Creative Arts for Educators	3
ECHE 4343	Curriculum for Early Childhood [10]	3
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7,9]	3
YCT Semester I		
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
CIEE 4391	Student Teaching Elementary School	3

SPED 4311	Content Learning in Special Education	3
TESL 4314	English Second Language Methodology II [9]	3
4+1 MED Pre-Internship [11]		
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 4304	Transition Planning in Special Education	3
SPED 5301	Education of Individuals with Disabilities	3
4+1 MED in Teaching and Learning [11]		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5398	Practicum in Classroom Instruction I	3
CIED 5399	Practicum in Classroom Instruction II	3
Minor: Not Required [12, 13]		
Total Hours		**155**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
2 BIOL 1408 and BIOL 1436 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major.
3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
4 CAMX 2301 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
5 GEOG 1300 or BESL 2301 is suggested to satisfy Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 COMS 2382 is suggested to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).
7 BESL 3301 is the prerequisite for TESL 3313.
8 CIEE 3343 and CIEE 3385 are taken in field 1. Field experiences required.
9 TESL 3313 is the prerequisite for TESL 4314.
10 ECHE 4343 requires field experience in Pre-Kindergarten or Kindergarten during the semester taken. It is highly advised to take this course with Field Block 1 or Field Block 2. If needed for full time enrollment status during Year-Long Residency it can be taken at that time, knowing field component is required in Pre-K or K.
11 Students admitted into the MED in Teaching and Learning as part of the 4+1 program may satisfy their Student Teaching requirement with the MED Internship coursework and 4 additional free elective hours. Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their Internship placement.
12 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
13 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, Field Experience III and Student Teaching.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience I, Field Experience II, Field Experience III, and Student Teaching.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 1408[1]	4	BIOL 1436[1]	4
CAMX 2301[2]	3	CIEE 2333	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385	3
		POLS 2305[7]	3
	16		**19**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[8]	3	Component Area VIII (p. 90)[6]	3
EDUC 1101	1	Component Area IX (p. 91)[8]	1
ENGL 2332 or 2333[9]	3	CIEE 3374	3
PHYS 1305 & PHYS 1105	4	MATH 3381	3
POLS 2306[7]	3	READ 3380	3
SPED 2301	3	SPED 3303	3
		SPED 3312	3
	17		**19**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[10]	3	ECHE 4343[11]	3
CIEE 3334	3	READ 3383	3
CIEE 3343	3	READ 3384	3
CIEE 3385	3	SPED 3301	3
ECHE 3325	3	TESL 3313[10,12]	3
HSTY 3384	3		
	18		**15**

Fourth Year

Fall	Hours	Spring	Hours
CIEE 3335	3	CIED 5383[13]	3
CIEE 3336	3	CIED 5393[13]	3
CIEE 4391	3	SPED 4304[13]	3
SPED 3305	3	SPED 5301[13]	3
SPED 4311	3		
TESL 4314[12]	3		
	18		**12**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318[13]	3	CIED 5370[13]	3	CIED 5371[13]	3
CIED 5398[13]	3	CIED 5399[13]	3	CIED 5382[13]	3
				CIED 5390[13]	3
	6		**6**		**9**

Total Hours: 155

1 BIOL 1408 and BIOL 1436 satisfy the requirement for Component Area III (Life and Physical Science) as well as the major.
2 CAMX 2301 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.
3 Satisfies the Core Curriculum requirement for Component Area I (Communications).

4 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
5 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
6 GEOG 1300 or BESL 2301 are suggested to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
8 COMS 2382 is suggested to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).
9 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
10 BESL 3301 is the prerequisite for TESL 3313.
11 ECHE 4343 requires field experience in Pre-Kindergarten or Kindergarten during the semester taken. It is highly advised to take this course with Field Block 1 or Field Block 2. If needed for full time enrollment status during Year-Long Residency it can be taken at that time, knowing field component is required in Pre-K or K.
12 TESL 3313 is the prerequisite for TESL 4314.
13 Students admitted into the MED in Teaching and Learning as part of the 4+1 program may satisfy their Student Teaching requirement with the MED Internship coursework and 4 additional free elective hours. Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their Internship placement.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, Field Experience III and Student Teaching.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience I, Field Experience II, Field Experience III, and Student Teaching.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their Internship placement.

Year-Long Clinical Teaching Option:

Candidates have the opportunity to select the Year-Long Clinical Teaching option in lieu of traditional student teaching. In this program, teacher candidates are immersed in the culture of one campus for an entire academic year, rather than the one semester of traditional student teaching. This extended clinical experience provides an in-depth bridge between theory and practice in a supportive environment. For more information contact the School of Teaching and Learning (https://www.shsu.edu/academics/school-of-teaching-and-learning/).

4+1 Program: Bachelor of Science in Education and Master of Education in Teaching and Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through TK20
- Current undergraduate transcript demonstrating a minimum 3.15 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited. The top candidates from the initial application review will progress to a group interview and must also submit:

- a video recording of themselves conducting a 20-30 minute lesson in a K-12 classroom
- an in-person writing sample

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, EC-6 Special Education Core is designed to provide graduates with the following marketable skills:

- Prepared to teach all content areas necessary for EC-6 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.
- Prepared to teach in high-need field of special education, grades K-12.

Bachelor of Science, Major in Education, 4-8 Core

Code	Title	Hours
Bachelor of Science, Major in Education, 4-8 Core		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2,3]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1436	Foundations Of Science [3,6]	4
ECON 1100	Economics of Social Problems [6]	1
ENGL 2332	World Literature I: Before the 17th Century [7]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [8]	3
CHEM 1406	Inorganic & Environmental Chemistry	4
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
HSTY 3384	Texas History	3
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 2384	Functions and Graphs	3
MATH 3386	Fundamentals of Probability and Statistics	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	4
SPED 2301	Introduction to Exceptionality	3
Field Experience I		
READ 3388	Reading Methods and Assessment - Middle Level	3
or READ 3383	Reading Methods and Assessment - Elementary	
READ 3389	Language Arts and Assessment - Middle Level	3
or READ 3384	Language Arts Methods and Assessment - Elementary	
SPED 3301	Learning and Instruction for Children with Disabilities [9]	3
TESL 3313	English Second Language Methodology I [8,10]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4334	Teaching Math in Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4336	Teaching Social Studies in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3

or CIEE 4391	Student Teaching Elementary School	
YCT Semester II		**9**
CIME 4392	Student Teaching in the Middle Grades	
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	
TESL 4314	English Second Language Methodology II [9]	
Minor: Not Required [10, 11]		
Total Hours		**126**

1 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.
2 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 is suggested.
3 BIOL 1436 satisfies the requirement for Component Area III (Life and Physical Science) and the major.
4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavorial Sciences), GEOG 1300 or BESL 2301 is suggested.
6 ECON 1100 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
7 ENGL 2332 OR ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
8 BESL 3301 is the prerequisite for TESL 3313.
9 TESL 3313 is the prerequisite for TESL 4314.
10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
11 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT I Semester, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/special-education-minor/).

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area V (p. 90)[1]		3 Component Area VI (p. 90)	3
Component Area VI (p. 90)		3 Component Area VII (p. 90)	3
BIOL 1436[2]		4 Component Area VIII (p. 90)[5]	3
ECON 1100[3]		1 COMS 2382	3
MATH 1384[4]		3 MATH 1385	3
	17		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[6]		4 BESL 3301[8]	3
Component Area VII (p. 90)		3 CHEM 1406	4
CIME 2313		3 CIME 3374	3
EDUC 1101		1 HSTY 3384	3
ENGL 2332 or 2333[7]		3 MATH 3386	3
MATH 2384		3 SPED 2301	3
		17	**19**

Third Year

Fall	Hours	Spring	Hours
CIME 3327		3 CIME 3375	3
READ 3388 or 3383		3 CIME 3385	3
READ 3389 or 3384		3 PHYS 1305 & PHYS 1105	4
SPED 3301		3 READ 3373	3
TESL 3313[8, 9]		3 READ 3374	3
		15	**16**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3376		3 CIME 4392 or CIEE 4392	3
CIME 4334		3 EDUC 4301	3
CIME 4335		3 TESL 4314[9]	3
CIME 4336		3	
CIME 4391 or CIEE 4391		3	
		15	**9**

Total Hours: 126

1 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
2 BIOL 1436 satisfies the requirement for Component Area III (Life and Physical Science) and the major.
3 ECON 1100 satisfies one hour of the requirement for the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
4 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavorial Sciences), GEOG 1300 or BESL 2301 is suggested.
6 To satisfy Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 is suggested.
7 ENGL 2332 OR ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
8 BESL 3301 is the prerequisite for TESL 3313.
9 TESL 3313 is the prerequisite for TESL 4314.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Education, 4-8 Core is designed to provide graduates with the following marketable skills:

- Prepared to teach all content necessary for 4 - 8 core certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, 4-8 Core: 4+1 Master of Education in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, 4-8 Core: MED in Teaching and Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2,3]		8
Component Area IV (Language, Philosophy, and Culture) [4]		3
Component Area V (Creative Arts) [5]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [6]		3
Component Area IX (Component Area Option) [7]		4

Degree Specific Requirements		
BIOL 1436	Foundations Of Science [2,3]	4
ECON 1100	Economics of Social Problems [7]	1
COMS 2382	Communication for Business & the Professions [7]	3
ENGL 2332	World Literature I: Before the 17th Century [4]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [8]	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
MATH 1385	Introduction to Foundations of Mathematics II	3
SPED 2301	Introduction to Exceptionality	3
Major: Prescribed Electives		
CHEM 1406	Inorganic & Environmental Chemistry	4
HSTY 3384	Texas History	3
MATH 2384	Functions and Graphs	3
MATH 3386	Fundamentals of Probability and Statistics	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	4
Field Experience I		
READ 3388	Reading Methods and Assessment - Middle Level	3
or READ 3383	Reading Methods and Assessment - Elementary	
READ 3389	Language Arts and Assessment - Middle Level	3
or READ 3384	Language Arts Methods and Assessment - Elementary	
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [8,9]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4334	Teaching Math in Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
or CIEE 4391	Student Teaching Elementary School	
CIME 4336	Teaching Social Studies in the Middle Grades	3
4+1 MED Pre-Internship [11]		
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 5301	Education of Individuals with Disabilities	3
TESL 4314	English Second Language Methodology II [9]	3
4+1 MED		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3

CIED 5398	Practicum in Classroom Instruction I (Title of course should be changed to Practicum in Classroom Instruction I)	3
CIED 5399	Practicum in Classroom Instruction II (Title of course should be changed to Practicum in Classroom Instruction II)	3
Minor: Not Required [12, 13]		
Total Hours		**150**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
2 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 is suggested.
3 BIOL 1436 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
4 ENGL 2332 OR ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
5 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
6 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavorial Sciences), GEOG 1300 or BESL 2301 is suggested.
7 ECON 1100 and COMS 2382 satisfy the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
8 BESL 3301 is the prerequisite for TESL 3313.
9 TESL 3313 is the prerequisite for TESL 4314.
10 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.
11 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
12 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework. Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT I Semester, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I. BESL 3301 is required prior to enrollment in Field Experience II.
CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/special-education-minor/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)[1]	3	Component Area VIII (p. 90)[7]	3
BIOL 1436[2]	4	COMS 2382[8]	3
ECON 1100[3]	1	ENGL 1302[4]	3
ENGL 1301[4]	3	HSTY 1302[5]	3
HSTY 1301[5]	3	MATH 1385	3
MATH 1384[6]	3	POLS 2305[9]	3
	17		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[10]		4 BESL 3301[12]	3
CIME 2313		3 CHEM 1406	4
EDUC 1101		1 CIME 3374	3
ENGL 2332 or 2333[11]		3 MATH 3386	3
MATH 2384		3 SPED 2301	3
POLS 2306[9]		3	
		17	**16**

Third Year

Fall	Hours	Spring	Hours
CIME 3327		3 CIME 3375	3
READ 3388 or 3383		3 CIME 3385	3
READ 3389 or 3384		3 HSTY 3384	3
SPED 3301		3 PHYS 1305 & PHYS 1105	4
TESL 3313[12,13]		3 READ 3373	3
		READ 3374	3
		15	**19**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3376		3 CIED 5383[14]	3
CIME 4334		3 CIED 5393[14]	3
CIME 4335		3 SPED 5301[14]	3
CIME 4336		3 TESL 4314[13,14]	3
CIME 4391		3	
		15	**12**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318		3 CIED 5370		3 CIED 5371	3
CIED 5398		3 CIED 5399		3 CIED 5382	3
				CIED 5390	3
		6		**6**	**9**

Total Hours: 150

1. To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
2. BIOL 1436 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
3. ECON 1100 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
4. Satisfies Core Curriculum requirement for Component Area I (Communications).
5. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
7. To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavorial Sciences), GEOG 1300 or BESL 2301 is suggested.
8. COMS 2382 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
9. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
10. To satisfy Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 is suggested.
11. ENGL 2332 OR ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
12. BESL 3301 is the prerequisite for TESL 3313.
13. TESL 3313 is the prerequisite for TESL 4314.
14. Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework. Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT I Semester, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I. BESL 3301 is required prior to enrollment in Field Experience II.
CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education (p. 618). This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education.

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, 4-8 Core: 4+1 MED in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach all content necessary for 4 - 8 core certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education: 4-8 ELAR

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education: 4-8 ELAR		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
ENGL 3338	Studies in Multicultural Literature	3
ENGL 3363	Mythology	3
ENGL 3372	Introduction to Linguistics	3
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
Major: Required		
Field Experience I		
READ 3388	Reading Methods and Assessment - Middle Level	3
or READ 3383	Reading Methods and Assessment - Elementary	
READ 3389	Language Arts and Assessment - Middle Level	3
or READ 3384	Language Arts Methods and Assessment - Elementary	
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7,8]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
or CIEE 4391	Student Teaching Elementary School	
READ 4311	Critical Inquiry & Thinking in Middle Grades	3
READ 4326	Critical Literacy & Genre-based Strategies in Middle Grades	3

YCT Semester II		
CIME 4392	Student Teaching in the Middle Grades	3
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
TESL 4314	English Second Language Methodology II	3
Minor: Not Required [9,10]		
Total Hours		**121**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
2 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavorial Sciences), GEOG 1300 OR BESL 2301 is suggested.
6 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
7 BESL 3301 is the prerequisite for TESL 3313.
8 TESL 3313 is the prerequisite for TESL 4314.
9 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
10 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]		4 Component Area VIII (p. 90)[7]	3
Component Area V (p. 90)[2]		3 Component Area IX (p. 91)[3]	3
Component Area IX (p. 91)[3]		1 ENGL 1302[4]	3
ENGL 1301[4]		3 HSTY 1302[5]	3
HSTY 1301[5]		3 MATH 1385	3
MATH 1384[6]		3 POLS 2305[8]	3
	17		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]		4 BESL 3301[10]	3
CIME 2313		3 CIME 3374	3
EDUC 1101		1 ENGL 3338	3
ENGL 2332 or 2333[9]		3 ENGL 3363	3
MATH 3381		3 READ 3380	3
POLS 2306[8]		3 SPED 2301	3
	17		**18**

Third Year

Fall	Hours	Spring	Hours
CIME 3327		3 CIME 3375	3
READ 3388 or 3383		3 CIME 3385	3
READ 3389 or 3384		3 ENGL 3372	3
SPED 3301		3 READ 3373	3
TESL 3313[10,11]		3 READ 3374	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3376		3 CIME 4392 or CIEE 4392	3
CIME 4391 or CIEE 4391		3 EDUC 4301	3
READ 4311		3 TESL 4314[11]	3
READ 4326		3	
	12		**9**

Total Hours: 121

1 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
2 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
3 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
4 Satisfies Core Curriculum requirement for Component Area I (Communication).
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
7 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavorial Science), GEOG 1300 OR BESL 2301 is suggested.
8 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
9 ENGL 2332 and ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
10 BESL 3301 is the prerequisite for TESL 3313.
11 TESL 3313 is the prerequisite for TESL 4314.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

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The BS, Major in Education: 4-8 ELAR is designed to provide graduates with the following marketable skills:

- Prepared to teach English Language Arts and Reading content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, 4-8 ELAR: 4+1 Master of Education in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

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Code	Title	Hours
Bachelor of Science, Major in Education, 4-8 ELAR: 4+1 Master of Education in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	

MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
ENGL 3338	Studies in Multicultural Literature	3
ENGL 3363	Mythology	3
ENGL 3372	Introduction to Linguistics	3
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 3381	Introduction to Foundations of Mathematics III	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
Major: Prescribed Electives		
Education Undergraduate Electives		5
Field Experience I		
READ 3388	Reading Methods and Assessment - Middle Level	3
or READ 3383	Reading Methods and Assessment - Elementary	
READ 3389	Language Arts and Assessment - Middle Level	3
or READ 3384	Language Arts Methods and Assessment - Elementary	
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7,8]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
READ 4311	Critical Inquiry & Thinking in Middle Grades	3
READ 4326	Critical Literacy & Genre-based Strategies in Middle Grades	3
4+1 MED Pre-Internship [9]		
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 5301	Education of Individuals with Disabilities	3
TESL 4314	English Second Language Methodology II	3
4+1 MED Teaching & Learning		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5398	Practicum in Classroom Instruction I	3
CIED 5399	Practicum in Classroom Instruction II	3
Minor: Not Required [10,12]		
Total Hours		**150**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.

2 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.

3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.

5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), GEOG 1300 OR BESL 2301 is suggested.
6 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
7 BESL 3301 is the prerequisite for TESL 3313.
8 TESL 3313 is the prerequisite for TESL 4314.
9 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their Internship placement.
10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
11 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

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First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]	4	Component Area VIII (p. 90)[7]	3
Component Area V (p. 90)[2]	3	Component Area IX (p. 91)[3]	3
Component Area IX (p. 91)[3]	1	ENGL 1302[4]	3
ENGL 1301[4]	3	HSTY 1302[5]	3
HSTY 1301[5]	3	MATH 1385	3
MATH 1384[6]	3	POLS 2305[8]	3
	17		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]	4	CIME 3374	3
CIME 2313	3	ENGL 3338	3
EDUC 1101	1	ENGL 3372	3
ENGL 2332 or 2333[9]	3	READ 3380	3
MATH 3381	3	SPED 2301[10]	3
POLS 2306[8]	3		
	17		**15**

Third Year

Fall	Hours	Spring	Hours
CIME 3327		3 CIME 3375	3
READ 3388 or 3383		3 CIME 3385	3
READ 3389 or 3384		3 ENGL 3363	3
SPED 3301		3 READ 3373	3
TESL 3313[10,11]		3 READ 3374	3
		Education Undergraduate Electives	2
	15		**17**

Fourth Year

Fall	Hours	Spring	Hours
BESL 3301		3 CIED 5383[12]	3
CIME 3376		3 CIED 5393[12]	3
READ 4311		3 CIME 4391	3
READ 4326		3 SPED 5301[12]	3
Education Undergraduate Electives		3 TESL 4314[11,12]	3
	15		**15**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318		3 CIED 5370		3 CIED 5371	3
CIED 5398		3 CIED 5399		3 CIED 5382	3
				CIED 5390	3
	6		**6**		**9**

Total Hours: 150

1 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
2 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
3 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
4 Satisfies the Core Curriculum requirement for Component Area I (Communications).
5 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
6 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
7 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), GEOG 1300 OR BESL 2301 is suggested.
8 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
9 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
10 BESL 3301 is the prerequisite for TESL 3313.
11 TESL 3313 is the prerequisite for TESL 4314.
12 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their Internship placement.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
All minors can be paired with this degree program.
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The BS, Major in Education, 4-8 ELAR: 4+1 MED in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach English Language Arts and Reading content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education: 4-8 Mathematics

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Code	Title	Hours
Bachelor of Science, Major in Education: 4-8 Mathematics		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 2384	Functions and Graphs	3
MATH 2385	Fundamentals of Calculus	3
MATH 3380	Historical Perspectives of Mathematics	3
MATH 3383	Geometric Measurement/Transformation	3
MATH 3384	Foundations of Mathematics	3
MATH 3386	Fundamentals of Probability and Statistics	3
MATH 3387	Problem Solving-Middle School Mathematics	3
SPED 2301	Introduction to Exceptionality	3
Major: Required		
Field Experience I		
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7,8]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4334	Teaching Math in Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
or CIEE 4391	Student Teaching Elementary School	
YCT Semester II		
CIME 4392	Student Teaching in the Middle Grades	3

or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
TESL 4314	English Second Language Methodology II (Evening) [8]	3
Minor: Not Required [9,10]		
Total Hours		**121**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
2 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408, BIOL 1436, CHEM 1406 are suggested.
3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), BESL 2301 OR GEOG 1300 are suggested.
6 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
7 BESL 3301 is a prerequisite for TESL 3313.
8 TESL 3313 is a prerequisite for TESL 4314.
9 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
10 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIME, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available here (p. 618).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]	4	Component Area VIII (p. 90)[6]	3
Component Area V (p. 90)[2]	3	Component Area IX (p. 91)[7]	1
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385	3
		POLS 2305[8]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]	4	BESL 3301[10]	3
Component Area IX (p. 91)[7]	3	CIME 3374	3

CIME 2313	3	MATH 2385	3
EDUC 1101	1	MATH 3380	3
ENGL 2332 or 2333[9]	3	SPED 2301	3
MATH 2384	3		
POLS 2306[8]	3		
	20		**15**

Third Year

Fall	Hours	Spring	Hours
CIME 3327	3	MATH 3386	3
CIME 3385	3	MATH 3387	3
MATH 3383	3	READ 3373	3
MATH 3384	3	READ 3374	3
SPED 3301	3		
TESL 3313[10,11]	3		
	18		**12**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIME 4392 or CIEE 4392	3
CIME 3376	3	EDUC 4301	3
CIME 4334	3	TESL 4314[11]	3
CIME 4335	3		
CIME 4391 or CIEE 4391	3		
	15		**9**

Total Hours: 121

1 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408, BIOL 1436 OR CHEM 1305, CHEM 1105 are suggested.
2 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
3 Satisfies Core Curriculum requirement for Component Area I (Communication).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
6 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), BESL 2301 OR GEOG 1300 is suggested.
7 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
8 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
9 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
10 BESL 3301 is a prerequisite for TESL 3313.
11 TESL 3313 is a prerequisite for TESL 4314.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIME, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374 , and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education: 4-8 Mathematics is designed to provide graduates with the following marketable skills:

- Prepared to teach all Mathematics content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, 4-8 Mathematics: 4+1 MED in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

Code	Title	Hours
Bachelor of Science, Major in Education, 4-8 Mathematics: 4+1 MED in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
CIME 2313	Teaching as a Profession	3

CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 2384	Functions and Graphs	3
MATH 2385	Fundamentals of Calculus	3
MATH 3380	Historical Perspectives of Mathematics	3
MATH 3383	Geometric Measurement/Transformation	3
MATH 3384	Foundations of Mathematics	3
MATH 3386	Fundamentals of Probability and Statistics	3
MATH 3387	Problem Solving-Middle School Mathematics	3
SPED 2301	Introduction to Exceptionality	3
Major: Prescribed Electives		
Education Undergraduate Elective		5
Field Experience I		
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7, 8]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4334	Teaching Math in Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
4+1 MED Pre-Internship [9]		
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 5301	Education of Individuals with Disabilities	3
TESL 4314	English Second Language Methodology II [8]	3
4+1 MED Teaching & Learning		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5398	Practicum in Classroom Instruction I (Title of course should be changed to Practicum in Classroom Instruction I)	3
CIED 5399	Practicum in Classroom Instruction II (Title of course should be changed to Practicum in Classroom Instruction II)	3
Minor: Not Required [10,11]		
Total Hours		**150**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
2 To satisfy the Core Curriculum requirement for Component III (Life and Physical Science), BIOL 1408 and BIOL 1436 is suggested.
3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
4 To satisfy the Core Curriculum requirement for Component V (Creative Arts), CAMX 2301 is suggested.
5 To satisfy the Core Curriculum requirement Component VIII (Social and Behavioral Sciences), BESL 2301 OR GEOG 1300 is suggested.
6 To satisfy the Core Curriculum requirement for Component IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
7 BESL 3301 is the prerequisite for TESL 3313.
8 TESL 3313 (http://catalog.shsu.edu/search/?P=TESL%203313) is the prerequisite for TESL 4314 (http://catalog.shsu.edu/search/?P=TESL%204314).

9 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

11 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIME, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available here (p. 618).

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area VIII (p. 90)[6]	3
Component Area III (p. 89)[2]	4	Component Area IX (p. 91)[7]	1
Component Area V (p. 90)[3]	3	ENGL 1302[4]	3
ENGL 1301[4]	3	HSTY 1302[5]	3
HSTY 1301[5]	3	MATH 1385	3
		POLS 2305[8]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[2]	4	CIME 3374	3
CIME 2313	3	EDUC 1101	1
COMS 2382[7]	3	MATH 2385	3
ENGL 2332 or 2333[9]	3	MATH 3380	3
MATH 2384	3	SPED 2301	3
POLS 2306[8]	3	Education Undergraduate Electives	5
	19		**18**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[11]	3	CIME 3327	3
CIME 3385	3	MATH 3386	3

MATH 3383	3	MATH 3387	3
MATH 3384	3	READ 3373	3
SPED 3301	3	READ 3374	3
TESL 3313[10,11]	3		
	18		**15**

Fourth Year

Fall	Hours	Spring	Hours		
CIME 3375		3 CIED 5383[12]		3	
CIME 3376		3 CIED 5393[12]		3	
CIME 4334		3 SPED 5301[12]		3	
CIME 4335		3 TESL 4314[11,12]		3	
CIME 4391		3			
		15		**12**	

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318		3 CIED 5370		3 CIED 5371	3
CIED 5398		3 CIED 5399		3 CIED 5382	3
				CIED 5390	3
		6		**6**	**9**

Total Hours: 150

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
2 To satisfy the Core Curriculum requirement for Component III (Life and Physical Science) BIOL 1408 and BIOL 1436 is suggested.
3 To satisfy the Core Curriculum requirement for Component V (Creative Arts), CAMX 2301 is suggested.
4 Satisfies Core Curriculum requirement for Component Area I (Communications).
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 To satisfy the Core Curriculum requirement Component VIII (Social and Behavioral Sciences), BESL 2301 OR GEOG 1300 is suggested.
7 To satisfy the Core Curriculum requirement for Component IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
8 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
9 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
10 BESL 3301 is the prerequisite for TESL 3313.
11 TESL 3313 (http://catalog.shsu.edu/search/?P=TESL%203313) is the prerequisite for TESL 4314 (http://catalog.shsu.edu/search/?P=TESL%204314).
12 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIME, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available here (p. 618).

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, 4-8 Mathematics: 4+1 MED Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach all Mathematics content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education: 4-8 Science

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education: 4-8 Science		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
CHEM 1406	Inorganic & Environmental Chemistry	4
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
GEOG 1401	Weather and Climate	4
GEOL 1403	Physical Geology	4
GEOL 1404	Historical Geology	4
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 2384	Functions and Graphs	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	4
PHYS 1403	Stars & Galaxies	4
SPED 2301	Introduction to Exceptionality	3
Major: Sciences [8]		**4**
Select one of the following:		
ASTR 3303	Life in the Universe	
ASTR 3383	Cosmic Catastrophes	
BIOL 1406	General Biology I	
BIOL 1407	General Biology II	
BIOL 2401	Human Anatomy [8]	
GEOL 3330	Oceanography	
GEOL 3326	Environmental Geology	
Major: Required		
Field Experience I		
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7,9]	3
Field Experience II		

READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
or CIEE 4391	Student Teaching Elementary School	
YCT Semester II		
CIME 4392	Student Teaching in the Middle Grades	3
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
TESL 4314	English Second Language Methodology II (Evening) [9]	3
Minor: Not Required [10,11]		
Total Hours		**128**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
2 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
3 ENGL 2332 or ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
5 To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), GEOG 1300 OR BESL 2301 is suggested.
6 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
7 BESL 3301 is a prerequisite for TESL 3313.
8 BIOL 2401 is recommended.
9 TESL 3313 is a prerequisite for TESL 4314.
10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
11 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]		4 Component Area III (p. 89)[1]	4
Component Area V (p. 90)[2]		3 Component Area VIII (p. 90)[7]	3

Component Area IX (p. 91)[3]		1 ENGL 1302[4]	3
ENGL 1301[4]		3 HSTY 1302[5]	3
HSTY 1301[5]		3 MATH 1385	3
MATH 1384		3 POLS 2305[8]	3
	17		**19**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[3]		3 BESL 3301[10]	3
CIME 2313		3 CIME 3374	3
EDUC 1101		1 GEOL 1403	4
ENGL 2332 or 2333[9]		3 PHYS 1403	4
PHYS 1305 & PHYS 1105		4 SPED 2301	3
POLS 2306[8]		3	
	17		**17**

Third Year

Fall	Hours	Spring	Hours
CHEM 1406		4 GEOL 1404	4
CIME 3327		3 MATH 2384	3
GEOG 1401		4 READ 3373	3
SPED 3301		3 READ 3374	3
TESL 3313[10,11]		3 Major: Sciences (Select one course from the list below)[12]	4
	17		**17**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375		3 CIME 4392	3
CIME 3376		3 EDUC 4301	3
CIME 3385		3 TESL 4314[11]	3
CIME 4335		3	
CIME 4391		3	
	15		**9**

Total Hours: 128

1. To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
2. To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
3. To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
4. Satisfies the Core Curriculum requirement for Component Area I (Communication).
5. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
6. Satisfies Core Curriculum requirement for Component Area II (Mathematics) as well as major.
7. To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), GEOG 1300 OR BESL 2301 is suggested.
8. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
9. ENGL 2332 or ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
10. BESL 3301 is a prerequisite for TESL 3313.
11. TESL 3313 is a prerequisite for TESL 4314.
12. Select one course from the list below. BIOL 2401 is recommended.

Code	Title	Hours
Major: Sciences [13]		
ASTR 3303	Life in the Universe	3
ASTR 3383	Cosmic Catastrophes	3
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2401	Human Anatomy	4

GEOL 3330	Oceanography	3
GEOL 3326	Environmental Geology	3

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I and all subsequent field experience blocks.

BESL 3301 is required prior to enrollment in Field Experience I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education: 4-8 Science is designed to provide graduates with the following marketable skills:

- Prepared to teach all Science content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, 4-8 Science: 4+1 Master of Education in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, 4-8 Science: 4+1 Master of Education in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [7]	3
CHEM 1406	Inorganic & Environmental Chemistry	4
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
GEOG 1401	Weather and Climate	4
GEOL 1403	Physical Geology	4
GEOL 1404	Historical Geology	4
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 2384	Functions and Graphs	3
PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	4
PHYS 1403	Stars & Galaxies	4
SPED 2301	Introduction to Exceptionality	3
Major: Sciences		**3**
Select one of the following: [8]		
ASTR 3303	Life in the Universe	
ASTR 3383	Cosmic Catastrophes	
BIOL 1406	General Biology I	
BIOL 1407	General Biology II	
BIOL 2401	Human Anatomy [9]	
GEOL 3326	Environmental Geology	
GEOL 3330	Oceanography	
Major: Prescribed Electives		
Education Undergraduate Elective		1
Field Experience I		
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [7,9]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3

READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
4+1 MED Pre-Internship [10]		
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 5301	Education of Individuals with Disabilities	3
TESL 4314	English Second Language Methodology II [9]	3
4+1 MED Teaching & Learning		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5398	Practicum in Classroom Instruction I (Title of course should be changed to Practicum in Classroom Instruction I)	3
CIED 5399	Practicum in Classroom Instruction II (Title of course should be changed to Practicum in Classroom Instruction II)	3
Minor: Not Required [11, 12]		
Total Hours		**152**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
2 To satisfy the Core Curriculum requirement for Component Area III Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
3 ENGL 2332 or ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
4 To satisfy the Core Curriculum requirement Component Area V (Creative Arts), CAMX 2301 is suggested.
5 To satisfy the Core Curriculum requirement Component Area VIII (Social and Behavioral Sciences), GEOG 1300 OR BESL 2301 is suggested.
6 To satisfy the Core Curriculum requirement for Component Area IX (Core Component Area), ECON 1100 and COMS 2382 are suggested.
7 BESL 3301 is the prerequisite for TESL 3313.
8 BIOL 2401 is recommended.
9 TESL 3313 is the prerequisite for TESL 4314.
10 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.
11 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
12 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]	4	Component Area III (p. 89)[1]	4
Component Area V (p. 90)[2]	3	Component Area VIII (p. 90)[7]	3
Component Area IX (p. 91)[3]	1	ENGL 1302[4]	3
ENGL 1301[4]	3	HSTY 1302[5]	3
HSTY 1301[5]	3	MATH 1385	3
MATH 1384[6]	3	POLS 2305[8]	3
	17		**19**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[3]	3	CIME 3374	3
CIME 2313	3	GEOL 1403	4
EDUC 1101	1	MATH 2384	3
ENGL 2332 or 2333[9]	3	PHYS 1403	4
PHYS 1305 & PHYS 1105	4	SPED 2301	3
POLS 2306[8]	3		
	17		**17**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[10]	3	CIME 3327	3
CHEM 1406	4	GEOL 1404	4
GEOG 1401	4	READ 3373	3
SPED 3301	3	READ 3374	3
TESL 3313[10,11]	3	Major: Sciences[12]	4
	17		**17**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIED 5383[13]	3
CIME 3376	3	CIED 5393[13]	3
CIME 3385	3	SPED 5301[13]	3
CIME 4335	3	TESL 4314[11, 13]	3
CIME 4391	3		
	15		**12**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318	3	CIED 5370	3	CIED 5371	3
CIED 5398	3	CIED 5399	3	CIED 5382	3
				CIED 5390	3
	6		**6**		**9**

Total Hours: 152

1 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.

[2] To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
[3] To satisfy the Core Curriculum requirement for Component Area IX (Core Component Area), ECON 1100 and COMS 2382 are suggested.
[4] Satisfies the Core Curriculum requirement for Component Area I (Communication).
[5] Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
[6] MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
[7] To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), GEOG 1300 OR BESL 2301 is suggested.
[8] Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
[9] ENGL 2332 OR ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.
[10] BESL 3301 is the prerequisite for TESL 3313.
[11] TESL 3313 is the prerequisite for TESL 4314.
[12] Select one of the following Major: Sciences from the list below. BIOL 2401 is recommended.
[13] Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

Code	Title	Hours
Major: Sciences [13]		**3**
ASTR 3303	Life in the Universe	3
ASTR 3383	Cosmic Catastrophes	3
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2401	Human Anatomy	4
GEOL 3326	Environmental Geology	3
GEOL 3330	Oceanography	3

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, 4-8 Science: MED in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach all Science content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, 4-8 Social Studies

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, major in Education, 4-8 Social Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6,7]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
ECON 1100	Economics of Social Problems [7]	1
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
GEOG 1300	People, Places, and the Environment [5]	3
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [8]	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
ECON 2301	Principles Of Macroeconomics	3
EDUC 1101	Educator Preparation	1
GEOG 3359	Regional Geography: the United States and Canada	3
GEOG 4358	Geography of Texas	3
HSTY 2311	World History to 1500	3
HSTY 2312	World History Since 1500	3
HSTY 3384	Texas History	3
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 3381	Introduction to Foundations of Mathematics III	3
SPED 2301	Introduction to Exceptionality	3
Major: Required		
Field Experience I		
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [8,9]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YCT Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4336	Teaching Social Studies in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
or CIEE 4391	Student Teaching Elementary School	

READ 4311	Critical Inquiry & Thinking in Middle Grades	3
YCT Semester II		
CIME 4392	Student Teaching in the Middle Grades	3
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
TESL 4314	English Second Language Methodology II [9]	3
Minor: Not Required [10,11]		
Total Hours		**121**

1 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.
2 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
3 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
5 GEOG 1300 satisfies the requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
6 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), COMS 2382 is suggested.
7 ECON 1100 satisfies one hour of the requirement for Component Area IX (Component Area Option) and the major.
8 BESL 3301 is a prerequisite for TESL 3313.
9 TESL 3313 is a prerequisite for TESL 4314.
10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
11 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience I.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

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First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area III (p. 89)[1]		4 Component Area VI (p. 90)	3
Component Area V (p. 90)[2]		3 Component Area IX (p. 91)[5]	3
Component Area VI (p. 90)		3 GEOG 1300[6]	3
ECON 1100[3]		1 MATH 1385	3
MATH 1384[4]		3 POLS 2305[7]	3
	17		**18**

Second Year

Fall	Hours	Spring	Hours
BIOL 1408[1]		4 BESL 3301[9]	3
CIME 2313		3 CIME 3374	3
EDUC 1101		1 HSTY 2312	3
ENGL 2332 or 2333[8]		3 MATH 3381	3
HSTY 2311		3 SPED 2301[10]	3
POLS 2306[7]		3	
	17		**15**

Third Year

Fall	Hours	Spring	Hours
CIME 3327		3 ECON 2301	3
CIME 3385		3 GEOG 3359	3
HSTY 3384		3 GEOG 4358	3
SPED 3301[10]		3 READ 3373	3
TESL 3313[9,11]		3 READ 3374	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375		3 CIME 4392	3
CIME 3376		3 EDUC 4301	3
CIME 4336		3 TESL 4314[11]	3
CIME 4391		3	
READ 4311		3	
	15		**9**

Total Hours: 121

1 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
2 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
3 ECON 1100 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
4 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
5 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), COMS 2382 is suggested.
6 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
7 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
8 ENGL 2332 OR ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
9 BESL 3301 is a prerequisite for TESL 3313. (http://catalog.shsu.edu/undergraduate/course-descriptions/tesl/)
10 SPED 2301 is a prerequisite for SPED 3301.
11 TESL 3313 is a prerequisite for TESL 4314.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, 4-8 Social Studies is designed to provide graduates with the following marketable skills:

- Prepared to teach social studies content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, 4-8 Social Studies: 4+1 MED in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, 4-8 Social Studies: 4+1 MED in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [7]	4

ECON 1100	Economics of Social Problems [8]	1
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
GEOG 1300	People, Places, and the Environment [5]	3
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
Major: Foundation		
BESL 3301	Second Language Acquisition [9]	3
CHEM 1305 & CHEM 1105	Applying Chemistry to Society and Chemistry in Context Lab	4
or CHEM 1406	Inorganic & Environmental Chemistry	
CIME 2313	Teaching as a Profession	3
CIME 3327	Integrating Technology in the Middle Grades	3
CIME 3374	Human Growth & Learning	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
ECON 2301	Principles Of Macroeconomics	3
EDUC 1101	Educator Preparation	1
GEOG 3359	Regional Geography: the United States and Canada	3
GEOG 4358	Geography of Texas	3
HSTY 2311	World History to 1500	3
HSTY 2312	World History Since 1500	3
HSTY 3384	Texas History	3
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 3381	Introduction to Foundations of Mathematics III	3
SPED 2301	Introduction to Exceptionality	3
Major: Prescribed Elective		
Education Undergraduate Elective		1
Field Experience I		
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I [9, 10]	3
Field Experience II		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
YLR Semester I		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4336	Teaching Social Studies in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
READ 4311	Critical Inquiry & Thinking in Middle Grades	3
4+1 MED Pre-Internship [11]		
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 5301	Education of Individuals with Disabilities	3
TESL 4314	English Second Language Methodology II [10]	3
4+1 MED Teaching & Learning		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5398	Practicum in Classroom Instruction I (Title of course should be changed to Practicum in Classroom Instruction I)	3
CIED 5399	Practicum in Classroom Instruction II (Title of course should be changed to Practicum in Classroom Instruction II)	3

Minor: Not Required [12,13]	
Total Hours	**150**

1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major
2 BIOL 1436 is suggested to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).
3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
5 GEOG 1300 satisfies the requirement for Component Area VII (Social and Behavioral Science) and the major.
6 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), COMS 2382 is suggested.
7 BIOL 1408 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
8 ECON 1100 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
9 BESL 3301 is a prerequisite for TESL 3313.
10 TESL 3313 is a prerequisite for TESL 4314
11 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.
12 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
13 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, ECHE, CIME, READ, TESL, and SPED classes.

Full admission to the Educator Preparation program and CIME 2313, CIME 3374, and SPED 2301 are required prior to enrollment in Field Experience I.

BESL 3301 is required prior to enrollment in Field Experience II.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area III (p. 89)[1]	4	Component Area VI (p. 90)	3
Component Area V (p. 90)[2]	3	Component Area IX (p. 91)[5]	3
Component Area VI (p. 90)	3	GEOG 1300[6]	3
ECON 1100[3]	1	MATH 1385	3
MATH 1384[4]	3	POLS 2305[7]	3
	17		**18**

Second Year

Fall	Hours	Spring	Hours
BIOL 1408[8]	4	CHEM 1406 or 1305 ***and*** 1105	4
CIME 2313	3	CIME 3374	3
EDUC 1101	1	ECON 2301	3
ENGL 2332 or 2333[9]	3	HSTY 2312	3
HSTY 2311	3	MATH 3381	3
POLS 2306[7]	3	SPED 2301	3
	17		**19**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[10]	3	CIME 3327	3
CIME 3385	3	Education Undergraduate Elective	1
HSTY 3384	3	GEOG 3359	3
SPED 3301	3	GEOG 4358	3
TESL 3313[10,11]	3	READ 3373	3
		READ 3374	3
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIED 5383[12]	3
CIME 3376	3	CIED 5393[12]	3
CIME 4336	3	SPED 5301[12]	3
CIME 4391	3	TESL 4314[11,12]	3
READ 4311	3		
	15		**12**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318	3	CIED 5370	3	CIED 5371	3
CIED 5398	3	CIED 5399	3	CIED 5382	3
				CIED 5390	3
	6		**6**		**9**

Total Hours: 150

1 To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1436 is suggested.
2 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
3 ECON 1100 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
4 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
5 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), COMS 2382 is suggested.
6 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
7 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
8 BIOL 1408 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
9 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
10 BESL 3301 is a prerequisite for TESL 3313 (http://catalog.shsu.edu/undergraduate/course-descriptions/tesl/)
11 TESL 3313 is a prerequisite for TESL 4314
12 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their Internship placement.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully in order to progress through the field experience sequence.

BESL 3301 is required prior to enrollment in Field Experience II.

CIME 3385 is required prior to enrollment in YCT Semester I.

4-8 teaching candidates are now eligible to add a Minor in Special Education. This degree minor provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The course requirements are available by clicking here (p. 618).

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, 4-8 Social Studies: 4+1 MED in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach social studies content necessary for 4 - 8 certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education: PK-3

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education: PK-3		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
BIOL 1436	Foundations Of Science [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH: Any 3 hours of Math in addition to MATH 1384 & MATH 1385 [1]		3
Major: Foundation		
BESL 3301	Second Language Acquisition	3
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3302	Early Childhood Education Theories	3
ECHE 3313	Early Childhood Cognition	3
ECHE 3325	Creative Arts for Educators	3
ECHE 4333	Developmentally Appropriate Programs for Young Children	3
ECHE 4343	Curriculum for Early Childhood [7]	3
ECHE 4349	Language and Literacy Development	3
ECHE 3363	Working With Families in Diverse Communities	3
EDUC 1101	Educator Preparation	1
MATH 1384	Introduction to Foundations of Mathematics I	3
MATH 1385	Introduction to Foundations of Mathematics II	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
ECHE 3301	Social Guidance - Young Child	3
ECHE 3316	Assessment in Early Childhood	3
Field Experience II		
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I	3
YCT Semester I		
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
TESL 4314	English Second Language Methodology II	3
CIEE 4391	Student Teaching Elementary School	3

YCT Semester II		
ECHE 4399	Student Teaching in the Kindergarten Classroom	3
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
Total Hours		**124**

1 Students must take 9 hours of Mathematics which includes MATH 1384 and MATH 1385 as 6 of the 9 required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.

2 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.

3 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major. Substitute courses may be considered.

4 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.

5 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

6 COMS 1361 (https://shsu-curr.courseleaf.com/search/?P=COMS%201361) and KINE 2115 (https://shsu-curr.courseleaf.com/search/?P=KINE%202115) are suggested to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).

7 ECHE 4343 is best taken with Field Experience I. But can be taken with Field Experience II, or with YLR/ Student Teaching to be considered full-time. This course requires active field experience in a Pre-Kindergarten or Kindergarten classroom during the semester taken.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)[1]	3	Component Area V (p. 90)[6]	3
BIOL 1408[2]	4	BIOL 1436[2]	4
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385[5]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[7]	3	Component Area IX (p. 91)[7]	1
CIEE 2333	3	BESL 3301	3
EDUC 1101	1	CIEE 3374	3
ENGL 2332 or 2333[8]	3	ECHE 3313	3
MATH[5]	3	POLS 2306[9]	3
POLS 2305[9]	3	READ 3380	3
SPED 2301	3		
	19		**16**

Third Year

Fall	Hours	Spring	Hours
CIEE 3334	3	ECHE 3302	3
ECHE 3301	3	READ 3383	3
ECHE 3316	3	READ 3384	3
ECHE 4343[10]	3	SPED 3301	3

ECHE 4349		3 TESL 3313	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
CIEE 3335		3 ECHE 3363	3
CIEE 3336		3 ECHE 4333	3
CIEE 4391		3 ECHE 4399 or CIEE 4392	3
ECHE 3325		3 EDUC 4301	3
TESL 4314		3	
		15	**12**

Total Hours: 124

1 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.

3 ENGL 1301 and ENGL 1302 satisfy the Core Curriculum requirement for Component Area I (Communication).

4 HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).

5 Students must take 9 hours of Mathematics which includes MATH 1384 and MATH 1385 as 6 of the 9 required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.

6 To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.

7 To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), COMS 1361 and KINE 2115 are suggested.

8 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major. Substitute courses may be considered.

9 POLS 2305 and POLS 2306 satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).

10 ECHE 4343 (https://shsu-curr.courseleaf.com/search/?P=ECHE%204343) Is best taken with Field Experience I. but can be taken with Field Experience II, YR, or with Student Teaching to be considered full-time. Active Field Experience in a Kindergarten or PreKindergarten classroom is required during the semester this course is taken.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, PK3 is designed to provide graduates with the following marketable skills:

- Prepared for Texas Teacher Certification in Prekindergarten through third grade.
- Prepared to teach all content areas necessary for PK – 3rd Grade.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas Public schools.

Bachelor of Science, Major in Education, PK-3: 4+1 Master of Education in Teaching & Learning

Admission Documentation and Criteria

Applicants seeking admission to the Bachelor of Science in Education and Master of Education in Teaching and Learning 4+1 Program must submit the following:

- 4+1 Program Application through Apply Texas
- Current undergraduate transcript demonstrating a minimum 3.00 overall GPA or last 60 SCH.
- Three Reference Forms (at least two from SHSU professors)
- Writing Sample

Admission to the 4+1 program is competitive and the number of available positions is limited.

Before a formal offer of admission will be issued, the applicant must supply evidence that he or she has passed both the appropriate content TExES and PPR TExES certification exams.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, PK-3: 4+1 Master of Education in Teaching & Learning		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
BIOL 1436	Foundations Of Science [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH: Any 3 hours of Math in addition to MATH 1384 & MATH 1385 [1]		3
Major: Foundation		
BESL 3301	Second Language Acquisition	3
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3302	Early Childhood Education Theories	3
ECHE 3313	Early Childhood Cognition	3
ECHE 3325	Creative Arts for Educators	3
ECHE 3363	Working With Families in Diverse Communities	3
ECHE 4333	Developmentally Appropriate Programs for Young Children	3
ECHE 4343	Curriculum for Early Childhood [7]	3
ECHE 4349	Language and Literacy Development	3
EDUC 1101	Educator Preparation	1
MATH 1384	Introduction to Foundations of Mathematics I	3
MATH 1385	Introduction to Foundations of Mathematics II	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
ECHE 3301	Social Guidance - Young Child	3
ECHE 3316	Assessment in Early Childhood	3
Field Experience II		
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
SPED 3301	Learning and Instruction for Children with Disabilities	3

TESL 3313	English Second Language Methodology I	3
Field Experience III		
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
TESL 4314	English Second Language Methodology II	3
4+1 MED Pre-Internship [8]		
CIED 5383	Integrating Current Technologies in Education	3
CIED 5393	Assessment and Accountability	3
SPED 5301	Education of Individuals with Disabilities	3
4+1 MED Teaching & Learning		
ECHE 5000-6000 Level		3
ECHE 6088	Special Topics in Early Childhood Education	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
CIED 5382	Instructional Coaching	3
CIED 5390	Advanced Methods for Classroom Management and Discipline	3
CIED 5398	Practicum in Classroom Instruction I	3
CIED 5399	Practicum in Classroom Instruction II	3
General Electives		**3**
Minor: Not Required [9,10]		
Total Hours		**151**

1 Students must take 9 hours of Mathematics which includes MATH 1384 and MATH 1385 as 6 of the 9 required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.

2 BIOL 1408 and BIOL 1436 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.

3 ENGL 2332 OR ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

4 CAMX 2301 is suggested to fulfill the Core Curriculum requirement for Component Area V (Creative Arts).

5 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

6 COMS 1361 and KINE 2115 are suggested to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).

7 ECHE 4343 can be taken with Field Experience I, Field Experience II, or with Student Teaching to be considered full-time.

8 Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

9 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

10 All minors can be paired with this degree program.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours to earn teacher certification. This includes transfer and SHSU courses.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)[1]	3	Component Area V (p. 90)[6]	3
BIOL 1408[2]	4	BIOL 1436[2]	4
ENGL 1301[3]	3	ENGL 1302[3]	3

HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385[5]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[7]	3	Component Area IX (p. 91)[7]	1
CIEE 2333	3	BESL 3301	3
EDUC 1101	1	CIEE 3374	3
ENGL 2332 or 2333[8]	3	ECHE 3313	3
MATH: Any 3 hours of Math in addition to MATH 1384 and MATH 1385[5]	3	POLS 2306[9]	3
POLS 2305[9]	3	READ 3380	3
SPED 2301	3		
	19		**16**

Third Year

Fall	Hours	Spring	Hours
CIEE 3334	3	ECHE 4333	3
ECHE 3301	3	ECHE 5000-6000 Level	3
ECHE 3302	3	READ 3383	3
ECHE 3316	3	READ 3384	3
ECHE 3325	3	SPED 3301	3
ECHE 4349	3	TESL 3313	3
	18		**18**

Fourth Year

Fall	Hours	Spring	Hours
CIEE 3335	3	CIED 5383[11]	3
CIEE 3336	3	CIED 5393[11]	3
ECHE 3363	3	ECHE Elective (5000-6000 level)	3
ECHE 4343[10]	3	SPED 5301	3
TESL 4314	3		
	15		**12**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
BESL 5318	3	CIED 5370	3	CIED 5371	3
CIED 5398	3	CIED 5399	3	ECHE 5349	3
				ECHE 5375	3
	6		**6**		**9**

Total Hours: 151

1 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
2 BIOL 1408 and BIOL 1436 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
3 Satisfies Core Curriculum requirement for Component Area I (Communications).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Students must take 9 hours of Mathematics which includes MATH 1384 and MATH 1385 as 6 of the 9 required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major..
6 CAMX 2301 is suggested to fulfill the Core Curriculum requirement for Component Area V (Creative Arts).
7 COMS 1361 and KINE 2115 are suggested to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).
8 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
10 ECHE 4343 can be taken with Field Experience I, Field Experience II, or with Student Teaching to be considered full-time.

[11] Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Students must apply for graduation with their bachelor's degree during their M.Ed. Pre-Internship semester to be eligible for their internship placement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, PK3: 4+1 MED in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared for Texas Teacher Certification in Prekindergarten through third grade.
- Prepared to teach all content areas necessary for PK – 3rd Grade.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas Public schools.

Bachelor of Science, Major in Education: PK-3 Bilingual

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education: PK-3 Bilingual		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
BIOL 1436	Foundations Of Science [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH: Any 3 hours of Math in addition to MATH 1384 & MATH 1385 [1]		3
Major: Foundation		
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3313	Early Childhood Cognition	3
ECHE 3325	Creative Arts for Educators	3
ECHE 3363	Working With Families in Diverse Communities	3
ECHE 4333	Developmentally Appropriate Programs for Young Children	3
ECHE 4343	Curriculum for Early Childhood [6]	3
ECHE 4349	Language and Literacy Development	3
EDUC 1101	Educator Preparation	1
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
MATH 1385	Introduction to Foundations of Mathematics II [1]	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
Field Experience I		
BESL 3301	Second Language Acquisition [7]	3
BESL 4301	Spanish Fluency In Classroom [7]	3
CIEE 3334	Mathematics Instruction In Elementary Grades	3
ECHE 3301	Social Guidance - Young Child	3
ECHE 3316	Assessment in Early Childhood	3
Field Experience II		
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I	3
YCT Semester I		
BESL 4303	Curriculum In Bilingual and Second Language Programs [8]	3
BESL 4304	Language Learning & Literacy Dev in Multilingual Students [8]	3
BESL 4305	Academic Language in Dual Language Programs	3
CIEE 3335	Science Instruction In Elementary Grades	3

CIEE 3336	Social Studies Instruction In Elementary Grades	3
CIEE 4391	Student Teaching Elementary School	3
YCT Semester II		
BESL 4320	Student Teaching in the Bilingual/ESL Classroom	3
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
Total Hours		**130**

1 Students must take 9 hours of Mathematics which includes MATH 1384 and MATH 1385 as 6 of the 9 required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
2 BIOL 1408 and BIOL 1436 are preferred to satisfy Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.
3 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy or Culture) and major. Substitute courses may be considered.
4 CAMX 2301 is recommended for the Component Area V (Creative Arts) requirement.
5 PSYC 1301 is recommended for Component Area VIII (Social and Behavioral Sciences) and major.
6 ECHE 4343 is best taken with Field Block 1 or Field Block 2 though it can be taken during other semesters to obtain full time enrollment. ECHE 4343 requires active field experience in a kindergarten or pre-kindergarten classroom during the semester taken
7 BESL 3301 and BESL 4301 must be taken at the same time, typically with Field Experience I courses.
8 BESL 4303 and BESL 4304 must be taken at the same time, typically with Field Experience III courses.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)[1]	3	Component Area VIII (p. 90)[6]	3
BIOL 1408[2]	4	Component Area IX (p. 91)	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 1384[5]	3	MATH 1385[5]	3
		POLS 2305[7]	3
	16		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	BIOL 1436[2]	4
CIEE 2333	3	CIEE 3374	3
ECHE 3313	3	ECHE 3363	3
EDUC 1101	1	MATH[5,9]	3
ENGL 2332 or 2333[8]	3	READ 3380	3

POLS 2306[7]		3	
SPED 2301		3	
		17	**16**

Third Year

Fall	Hours	Spring	Hours
BESL 3301[10]		3 ECHE 4349	3
BESL 4301[10]		3 READ 3383	3
CIEE 3334		3 READ 3384	3
ECHE 3301		3 TESL 3313	3
ECHE 3316		3 SPED 3301	3
ECHE 4343[11]		3 ECHE 3302	3
		18	**18**

Fourth Year

Fall	Hours	Spring	Hours
BESL 4303[12]		3 BESL 4320 or CIEE 4392	3
BESL 4304[12]		3 EDUC 4301	3
BESL 4305		3 ECHE 4333	3
CIEE 3335		3	
CIEE 3336		3	
CIEE 4391		3	
		18	**9**

Total Hours: 130

1 CAMX 2301 is recommended to satisfy the Core Curriculum requirement for Component Area V (Creative Arts).

2 BIOL 1408 and BIOL 1436 are preferred to satisfy Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.

3 Satisfies the Core Curriculum requirement for Component Area I (Communications).

4 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

5 Students must take 9 hours of Mathematics which includes MATH 1384 and MATH 1385 as 6 of the 9 required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.

6 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

7 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).

8 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy or Culture) and major. Substitute courses may be considered.

9 Any 3 hours of Math in addition to MATH 1384 and MATH 1385.

10 BESL 3301 and BESL 4301 must be taken at the same time, typically with Field Experience I courses.

11 ECHE 4343 students must be accepted into the Educator Preparation Program (EPP), and it is recommended to take with Field Experience I or II courses due to the field requirement in Kindergarten or Pre-Kindergarten classroom. If needed it can be taken during YLR semester 1 or 2 to meet full time status

12 BESL 4303 and BESL 4304 must be taken at the same time, typically with Field Experience III courses.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the states' 6x30TX plan was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education PK3 Bilingual is designed to provide graduates with the following marketable skills:

- Prepared for Texas Teacher Certification in Prekindergarten through third grade bilingual classrooms
- Prepared to teach all content areas necessary for PK-3rd Grade in Bilingual (Spanish/English) classrooms
- Prepared to implement evidence-based methods of teaching in learning in bilingual and dual language classrooms
- Fully qualified to teach in Texas Public schools.

Bachelor of Science, Major in Education: PK-3 Special Education

Code	Title	Hours
Bachelor of Science, Major in Education: PK-3 Special Education		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts) [4]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
BIOL 1436	Foundations Of Science [2]	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
MATH: Any three hours of Math in addition to MATH 1384 and MATH 1385 [1]		3
Major: Foundation Courses		
BESL 3301	Second Language Acquisition	3
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
ECHE 3302	Early Childhood Education Theories	3
ECHE 3313	Early Childhood Cognition	3
ECHE 3363	Working With Families in Diverse Communities	3
ECHE 4333	Developmentally Appropriate Programs for Young Children	3
ECHE 4343	Curriculum for Early Childhood [6]	3
ECHE 4349	Language and Literacy Development	3
EDUC 1101	Educator Preparation	1
MATH 1384	Introduction to Foundations of Mathematics I [1]	3
MATH 1385	Introduction to Foundations of Mathematics II [1]	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
SPED 3303	Supporting Social Success	3
SPED 3306	Behavioral Principles	3
Field Experience I		
CIEE 3334	Mathematics Instruction In Elementary Grades	3
ECHE 3301	Social Guidance - Young Child	3
ECHE 3316	Assessment in Early Childhood	3
Field Experience II		
READ 3383	Reading Methods and Assessment - Elementary	3
READ 3384	Language Arts Methods and Assessment - Elementary	3
TESL 3313	English Second Language Methodology I	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
Yearlong Clinical Teaching I		
CIEE 3335	Science Instruction In Elementary Grades	3
CIEE 3336	Social Studies Instruction In Elementary Grades	3
CIEE 4391	Student Teaching Elementary School	3
SPED 4311	Content Learning in Special Education	3
TESL 4314	English Second Language Methodology II	3

Yearlong Clinical Teaching II		
ECHE 4399	Student Teaching in the Kindergarten Classroom	3
or CIEE 4392	Student Teaching Elementary School	
EDUC 4301	Teacher Education Capstone	3
Total Hours		**130**

1 Students must take nine hours of Mathematics which includes MATH 1384 and MATH 1385 as six of the nine required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.

2 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.

3 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major. Substitute courses may be considered.

4 CAMX 2301 is recommended for the Component Area V (Creative Arts) requirement.

5 PSYC 1301 is recommended for Component Area VIII (Social and Behavioral Science) and the major.

6 ECHE 4343 is best taken with Field Block 1 or Field Block 2 though it can be taken during other semesters to obtain full time enrollment. ECHE 4343 requires active field experience in a kindergarten or pre-kindergarten classroom during the semester taken.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

First Year

Fall	Hours	Spring	Hours
BIOL 1408[1]	4	Component Area V (p. 90)[6]	3
ENGL 1301[2]	3	BIOL 1436[1]	4
HSTY 1301[3]	3	ENGL 1302[2]	3
MATH 1384[4]	3	HSTY 1302[3]	3
PSYC 1301[5]	3	MATH 1385[4]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	Component Area IX (p. 91)	1
CIEE 2333	3	BESL 3301	3
ENGL 2332 or 2333[7]	3	CIEE 3374	3
MATH[4, 8]	3	ECHE 3313	3
POLS 2305[9]	3	ECHE 4349	3
SPED 2301	3	EDUC 1101	1
		POLS 2306[9]	3
	18		**17**

Third Year

Fall	Hours	Spring	Hours
CIEE 3334	3	ECHE 3302	3
ECHE 3301	3	ECHE 4333	3

ECHE 3316	3	READ 3383	3
ECHE 4343[10]	3	READ 3384	3
READ 3380	3	SPED 3301	3
SPED 3303	3	TESL 3313	3
	18		**18**

Fourth Year

Fall	Hours	Spring	Hours
CIEE 3335	3	CIEE 4392 or ECHE 4399	3
CIEE 3336	3	ECHE 3363	3
CIEE 4391	3	EDUC 4301	3
SPED 4311	3	SPED 3306	3
TESL 4314	3		
	15		**12**

Total Hours: 130

1 BIOL 1408 and BIOL 1436 are preferred to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major. Substitute courses may be considered.
2 Satisfies the Core Curriculum requirement for Component Area I (Communication).
3 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4 Students must take nine hours of Mathematics which includes MATH 1384 and MATH 1385 as six of the nine required hours. MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
5 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 CAMX 2301 is recommended to satisfy the Core Curriculum requirement for Component Area V (Creative Arts).
7 ENGL 2332 or ENGL 2333 is preferred to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major. Substitute courses may be considered.
8 Any three hours of Math in addition to MATH 1384 and MATH 1385.
9 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
10 ECHE 4343 students must be accepted into the Educator Preparation Program (EPP), and it is recommended to take with Field Experience I or II courses due to the field requirement in Kindergarten or Pre-Kindergarten classroom. If needed, it can be taken during YLR semester one or two to meet full time status.

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA or in the last 60 semester hours in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YCT Semester I, and YCT Semester II. Each field experience block must be completed successfully, in order to progress through the field experience sequence.

Field Experience in public schools is required for many CIEE, CIME, ECHE, READ, SPED, and TESL classes.

Full admission to the Educator Preparation program is required prior to enrollment in Field Experience 1, Field Experience 2, YCT Semester I, and YCT Semester II.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education PK3 Special Education is designed to provide graduates with the following marketable skills:

- Prepared for Texas Teacher Certification in Prekindergarten through third grade special education classrooms.
- Prepared to teach all content areas necessary for PK-3rd Grade in special education classrooms.

- Prepared to implement evidence-based methods of teaching in learning in special education classrooms.
- Fully qualified to teach in Texas public schools.

Bachelor of Science, Major in Education, Early Childhood Education

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Education, Early Childhood Education		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
MATH (in addition to Core)		3
Major: Foundation		
BESL 2301	Multicultural Influence On Learning	3
BESL 3301	Second Language Acquisition	3
CIEE 2333	Becoming A Teacher	3
CIEE 3374	Human Growth & Learning	3
COUN 3321	Introduction to the Helping Relationship	3
ECHE 3313	Early Childhood Cognition	3
ECHE 3301	Social Guidance - Young Child (Blocked with ECHE 3316) [2]	3
ECHE 3302	Early Childhood Education Theories	3
ECHE 3316	Assessment in Early Childhood (Blocked with ECHE 3301) [2]	3
ECHE 3325	Creative Arts for Educators	3
ECHE 3363	Working With Families in Diverse Communities	3
ECHE 4088	Special Topics in Early Childhood Education	3
ECHE 4333	Developmentally Appropriate Programs for Young Children	3
ECHE 4343	Curriculum for Early Childhood	3
ECHE 4349	Language and Literacy Development	3
ECHE 4350	Preschool Child Wellness	3
ECHE OR TECA Elective [3,4]		12
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
SPED 3303	Supporting Social Success	3
SPED 3306	Behavioral Principles	3
Electives: General		
General Electives		3
Minor: Not Required [5,6]		
Total Hours		**120**

1. COMS 1361 and KINE 2115 are recommended to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).
2. ECHE 3301 and ECHE 3316 are blocked courses that are taken together and require Field Experience (20 hours).
3. Texas Early Childhood Articulation (TECA) courses are not offered at SHSU. TECA courses may be transferred from Community Colleges.
4. ECHE electives may include ECHE courses and courses with the prefix of BESL, CRIJ, EDUC, PSYC, READ, SOCI, or SPED that have a content focus related to working with young children and families.
5. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

[6] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Not intended to lead to EC-6th Grade Texas Teacher Certification.

The TECA courses use common numbering system and content throughout Texas as Academic Transfer Credit Courses*:* **TECA 1303 Families, School, and Community; TECA 1311 Educating Young Children; TECA 1318 Wellness of the Young Child; TECA 1352 Child Growth and Development.**

TECA courses are designated as:

ACGM (Lower-Division Academic Course Guide Manual) Courses: Designated by the Texas Higher Education Coordinating Board for general academic transfer among community, state, and technical colleges in Texas; and state public four-year colleges and universities as freshman and sophomore general education courses.

WECM (Workforce Education Course Manual) Courses: Designated by the Texas Higher Education Coordinating Board as workforce education (technical) courses offered for credit and CEUs (Continuing Education Units). **While these courses are designed to transfer among state community colleges, they are not designed to automatically transfer to public four-year colleges and universities.**

The TECA course completed at Texas Community Colleges **may be** transferred as credit courses in the ECHE and the BAAS/ECHE programs at SHSU. They are not currently transferred as credit courses into other EDUC degree programs resulting in Texas Teacher Certification.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	ENGL 1302[1]	3
ENGL 1301[1]	3	HSTY 1302[2]	3
HSTY 1301[2]	3	MATH (in addition to Core)	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)[3]	1
Component Area IX (p. 91)[3]	3	BESL 2301	3
CIEE 2333	3	CIEE 3374	3
COUN 3321	3	POLS 2306[4]	3
POLS 2305[4]	3	SPED 2301	3
	15		**13**

Third Year

Fall	Hours	Spring	Hours
BESL 3301	3	ECHE 3302	3
ECHE 3313	3	ECHE 3363	3
ECHE 3325	3	ECHE or TECA Elective[5,6]	3
ECHE or TECA Elective[5,6]	3	General Elective	3
SPED 3306	3	READ 3380	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
ECHE 4088	3	ECHE 3301[7]	3

ECHE 4333	3 ECHE 3316[7]	3
ECHE 4350	3 ECHE 4343	3
ECHE or TECA Elective[5,6]	3 ECHE 4349	3
SPED 3303	3 ECHE or TECA Elective[5,6]	3
	15	**15**

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area I (Communication).
2 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
3 COMS 1361 and KINE 2115 are recommended to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 Texas Early Childhood Articulation (TECA) courses are not offered at SHSU. TECA courses **may be** transferred from Community Colleges.
6 ECHE electives may include ECHE courses and courses with the prefix of BESL, CRIJ, EDUC, PSYC, READ, SOCI, or SPED that have a content focus related to working with young children and families.
7 ECHE 3301 and ECHE 3316 are blocked courses that are taken together and require Field Experience (32 hours).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Not intended to lead to EC-6th Grade Texas Teacher Certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The TECA courses use common numbering system and content throughout Texas as Academic Transfer Credit Courses*:* **TECA 1303 Families, School, and Community; TECA 1311 Educating Young Children; TECA 1318 Wellness of the Young Child; TECA 1352 Child Growth and Development.**

TECA courses are designated as:

ACGM (Lower-Division Academic Course Guide Manual) Courses: Designated by the Texas Higher Education Coordinating Board for general academic transfer among community, state, and technical colleges in Texas; and state public four-year colleges and universities as freshman and sophomore general education courses.

WECM (Workforce Education Course Manual) Courses: Designated by the Texas Higher Education Coordinating Board as workforce education (technical) courses offered for credit and CEUs (Continuing Education Units). **While these courses are designed to transfer among state community colleges, they are not designed to automatically transfer to public four-year colleges and universities.**

The TECA course completed at Texas Community Colleges **may be** transferred as credit courses in the INST/ECHE and the BAAS/ECHE programs at SHSU. They are not currently transferred as credit courses into other INST/EDUC degree programs resulting in Texas Teacher Certification.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS, Major in Education, Early Childhood Education is designed to provide graduates with the following marketable skills:

- Qualified to teach young children ages birth through age 8 in private schools, preschools, Head Start programs, and childcare programs.
- Ability to work in various programs serving children and families within private sector employment.
- Ability to provide professional development to childcare teachers.
- Demonstrate skills needed for continued studies and certification as childcare administrators.

Bachelor of Arts, Double Major in Education and English

Code	Title	Hours
Bachelor of Arts, Double Major in Education and English		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
CISE 3383	Planning Instruction With Technology Integration	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4374	Human Growth and Learning	3
CISE 4377	Assessment of Student Learning In Secondary Grades	3
CISE 4379	Differentiated Pedagogy	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
READ 4378	Multiple Literacies in Secondary Education	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 4303	Teaching English As A Second Language	3
English Major		
ENGL 2332	World Literature I: Before the 17th Century	3
or ENGL 2333	World Literature II: From the 17th Century and After	
ENGL 3360	Survey of American Literature to 1865	3
or ENGL 3361	Survey of American Literature from 1865 to the Present	
ENGL 3373	English Grammar	3
ENGL 3374	Teaching Writing and Literature	3
ENGL 3384	Early English Masterworks	3
or ENGL 3385	Later English Masterworks	
ENGL 4364	Methods of Teaching English in Secondary Schools	3
4000-level ENGL Electives		6
3000- or 4000-level ENGL Electives		15
Student Teaching		
CISE 4380	Responsibilities of the Professional Educator	3
CISE 4396	Student Teaching - Secondary Classroom	3
CISE 4397	Student Teaching - Secondary Classroom	3
Minor: Not Required [2, 3]		
Total Hours		**120**

1 MATH 1332 is recommended.

2 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

3 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all Education major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must meet a cumulative 3.0 minimum GPA in all English coursework.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area IX (p. 91)	4
Component Area IV (p. 89)	3	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[3]	3
HSTY 1301[3]	3	ENGL 2332 or 2333	3
	16		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	CISE 3384	3
Component Area VIII (p. 90)	3	CISE 4374	3
ENGL 3360 or 3361	3	ENGL 3384 or 3385	3
ENGL 3373	3	POLS 2306[4]	3
POLS 2305[4]	3	ENGL 3000- or 4000-level Elective	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
ENGL 3374	3	CISE 3383	3
SPED 3301	3	CISE 4394	3
TESL 4303	3	ENGL 4364	3
ENGL 3000- or 4000-level Elective	6	READ 4378	3
		ENGL 3000- or 4000-level Elective	6
	15		**18**

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4380	3
CISE 4377	3	CISE 4396	3
CISE 4379	3	CISE 4397	3
ENGL 4000-level elective	6		
	15		**9**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement in Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all Education major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must meet a cumulative 3.0 minimum GPA in all English coursework.

Students must earn an overall GPA of 2.75 to be eligible for teacher certification in Texas.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA with a double Major in Education and in English is designed to provide graduates with the following marketable skills:

- Prepared to teach English/Language Arts content for Texas teacher certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public high schools.

Bachelor of Arts, Double Major in Education and Mass Communication: Journalism

The Bachelor of Arts with a Double Major in Education and Mass Communication: Journalism empowers students who intend to teach in K-12 schools to craft news content on a variety of media platforms with efficiency and expedience. Students develop traditional reporting and interviewing skills, writing and copy editing proficiencies, and expertise with photography, audio recording, and video recording. Publication across platforms, including student-created websites and diverse social media, is also emphasized.

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000 level courses in MCFL, MCJR, MCOM, MCPA, or MCPD. The lab is offered free of charge. Please visit the Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html)for additional information.

Writing Enhanced Courses. All undergraduate students are required to complete at least six hours of writing enhanced courses within the discipline, of which three hours must be advanced.

Code	Title	Hours
Bachelor of Arts, Double Major in Education and Mass Communication: Journalism		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4,5]		4
Degree Specific Requirements		
MCOM 1130	Media Literacy [5]	1
MCOM 1330	Media, Culture and Society [2]	3
MCOM 1371	Audio Production & Performance [4]	3

Major: Foundation		
CISE 3383	Planning Instruction With Technology Integration	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4374	Human Growth and Learning	3
CISE 4377	Assessment of Student Learning In Secondary Grades	3
CISE 4379	Differentiated Pedagogy	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
READ 4378	Multiple Literacies in Secondary Education	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 4303	Teaching English As A Second Language	3
Major: Required (Mass Communication: Journalism)		
MCJR 2362	News Reporting	3
MCJR 3360	Specialized Writing	3
MCJR 3361	Broadcast Journalism	3
MCJR 3364	Copyediting for News	3
MCJR 3366	Photojournalism	3
MCJR 3369	Designing and Producing Scholastic Media	3
MCJR 4361	TV News Producing	3
MCJR 4365	Mobile & Social Reporting	3
MCJR 4369	Leadership in the Scholastic Media Newsroom	3
MCOM 1332	Writing For Mass Media	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum (Taken twice: one of two)	1
MCOM 3026	Media Practicum (Taken twice: two of two)	2
MCOM 4371	Mass Media Law And Ethics	3
Student Teaching		
CISE 4380	Responsibilities of the Professional Educator	3
CISE 4396	Student Teaching - Secondary Classroom	3
CISE 4397	Student Teaching - Secondary Classroom	3
Minor: Not Required [6]		
Total Hours		**120**

1 MATH 1332 is recommended.
2 MCOM 1330 satisfies three hours of the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the MCOM Major.
3 MCOM 1307 is recommended.
4 MCOM 1371 satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the MCOM Major.
5 MCOM 1130 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the MCOM Major.
6 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must earn a 2.0 minimum GPA in all Education coursework (SHSU and cumulative).

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

All Education majors must earn a grade of "C" or better in each Education course.

Students must earn a 2.75 minimum GPA (or in the last 60 semester hours) to earn teacher certification.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area VI (p. 90)	3
Component Area III (p. 89)	4	MCJR 2362	3
Component Area VI (p. 90)	3	MCOM 1332	3
MCOM 1330[2]	3	MCOM 1371[3]	3
		MCOM 2371	3
	16		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VII (p. 90)	3
Component Area V (p. 90)	3	Component Area VIII (p. 90)[4]	3
Component Area VII (p. 90)	3	CISE 4374	3
CISE 3384	3	MCJR 3361	3
MCJR 3360	3	MCJR 4365	3
MCOM 3026 (taken twice, one of two)	2	MCOM 3026 (taken twice, two of two)	1
	18		**16**

Third Year

Fall	Hours	Spring	Hours
MCJR 3364	3	CISE 3383	3
MCJR 3366	3	CISE 4394	3
MCJR 3369	3	MCJR 4361	3
MCOM 1130[5]	1	MCJR 4369	3
SPED 3301	3	READ 4378	3
TESL 4303	3		
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4380	3
CISE 4377	3	CISE 4396	3
CISE 4379	3	CISE 4397	3
MCOM 4371	3		
	12		**9**

Total Hours: 120

1 MATH 1332 is recommended.

2 MCOM 1330 satisfies three hours of the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the MCOM Major.

3 MCOM 1371 satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the MCOM Major.

4 MCOM 1307 is recommended.

5 MCOM 1130 satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) as well as the MCOM Major.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must earn a 2.0 minimum GPA in all Education coursework (SHSU and cumulative).

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

All Mass Communication majors and minors must earn a grade of "C" or better in each Mass Communication course.

All Education majors must earn a grade of "C" or better in each Education course.

Students must earn a 2.75 minimum GPA (or in the last 60 semester hours) to earn teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA with a Double Major in Education and Mass Communication: Journalism is designed to provide graduates with the following marketable skills:

- Prepared to teach Journalism content for Texas teacher certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public high schools.

Bachelor of Arts, Double Major in Education and Spanish

Code	Title	Hours
Bachelor of Arts, Double Major in Education and Spanish		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Education		
CISE 3383	Planning Instruction With Technology Integration	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools (Taken Twice)	3
CISE 4374	Human Growth and Learning	3
CISE 4377	Assessment of Student Learning In Secondary Grades	3
CISE 4379	Differentiated Pedagogy	3
READ 4378	Multiple Literacies in Secondary Education	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 4303	Teaching English As A Second Language	3
Major: Spanish		
SPAN 1411	Elementary Spanish I	4
SPAN 1412	Elementary Spanish II	4
SPAN 2311	Intermediate Spanish I	3
SPAN 2312	Intermediate Spanish II [2]	3
SPAN 4075	Individual Readings in Spanish	1
WOLC 4363	Language Learning: Concepts & Methods	3
Major: Prescribed Electives		
SPAN Advanced Electives		21
Student Teaching		

CISE 4380	Responsibilities of the Professional Educator	3
CISE 4396	Student Teaching - Secondary Classroom	3
CISE 4397	Student Teaching - Secondary Classroom	3
Minor: Not Required [3,4]		
Total Hours		**120**

1 MATH 1332 is recommended.
2 SPAN 2350 can be counted for SPAN 2312.
3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must earn a 2.75 minimum (or in the last 60 semester hours) overall major Education GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must meet a cumulative 2.75 minimum overall GPA in all Spanish and World Languages and Cultures coursework.

Students must earn a 2.75 minimum GPA (overall or last 60) to earn teacher certification.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	3	Component Area IX (p. 91)	1
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
SPAN 1411	4	SPAN 1412	4
	16		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
Component Area VIII (p. 90)	3	Component Area V (p. 90)	3
POLS 2305[4]	3	CISE 3384	3
SPAN 2311	3	POLS 2306[4]	3
		SPAN 2312[5]	3
	13		**15**

Third Year

Fall	Hours	Spring	Hours
CISE 4374	3	CISE 3383	3
SPED 3301	3	CISE 4394	3
TESL 4303	3	READ 4378	3
SPAN Advanced Electives	9	WOLC 4363	3
		SPAN Advanced Electives	6
	18		**18**

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4380	3

CISE 4377	3 CISE 4396	3
CISE 4379	3 CISE 4397	3
SPAN Advanced Electives	6 SPAN 4075	1
	15	**10**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 SPAN 2350 may be counted for SPAN 2312.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must earn a 2.75 minimum (or in the last 60 semester hours) overall major Education GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must meet a cumulative 2.75 minimum overall GPA in all Spanish and World Languages and Cultures coursework.

Students must earn a 2.75 minimum GPA (overall or last 60) to earn teacher certification.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA with a Double Major in Education and in Spanish is designed to provide graduates with the following marketable skills:

- Prepared to teach World Languages in Spanish content for Texas teacher certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public high schools.

Bachelor of Science, Double Major in Education and Composite Science

This degree is comprised of coursework from several disciplines; therefore, it will enable you to teach Biology, Chemistry, Geography and Geology (i.e., Earth Science), and Physics (including astronomy). Because individuals who have this certification can teach several disciplines of science, *they are especially sought after by schools*. This degree combines the core science coursework with that required for the Secondary Education certification. It also allows students to focus in an area of science that interests them by choosing designated electives within the focus area. Accordingly, after having completed the common core of science classes, students then focus their remaining coursework in an area of particular interest to them, such as chemistry or geology. Because this degree encompasses several science certifications, it requires 130-133 hours of coursework, depending upon the area of specialization. Below is a summary of the Composite Science degree requirements.

Code	Title	Hours
Bachelor of Science, Double Major in Education and Composite Science		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3

Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
MATH 1314	Pre Calculus Algebra [1]	3-4
or MATH 1410	Elementary Functions	
Major: Required (Education)		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4374	Human Growth and Learning	3
CISE 4377	Assessment of Student Learning In Secondary Grades	3
CISE 4379	Differentiated Pedagogy	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
READ 4378	Multiple Literacies in Secondary Education	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 4303	Teaching English As A Second Language	3
Major: Required (Composite Science)		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 1436	Foundations Of Science	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3390	Science Teaching Methods [4]	3
GEOG 1401	Weather and Climate	4
GEOL 1403	Physical Geology	4
GEOL 1404	Historical Geology	4
GEOL 3330	Oceanography [5,6]	3-4
or CHEM 3438	Biochemistry I	
or GEOG 3301	Environmental Geography	
or BIOL 4361	Evolutionary Biology	
or BIOL 4306	Philosophy Of Biology	
or PHIL 4306	Philosophy of Biology	
or HLTH 4390	Environmental Health	
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I [1]	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
PHYS 1403	Stars & Galaxies [6,7]	4
or CHEM 2323/2123	Organic Chemistry I: Lecture	
STAT 3379	Statistical Methods in Practice	3
Major: Concentration		**6-8**
Student Teaching		
CISE 4396	Student Teaching - Secondary Classroom	3
CISE 4397	Student Teaching - Secondary Classroom	3
Minor: Not Required [8,9]		
Total Hours		**130-133**

[1] MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major. Students may need to take MATH 1316 in order to take PHYS 1301 unless a prerequisite override given by the Physics Department Chair. MATH 1410 satisfies the Core

Curriculum requirement for Component Area II (Mathematics) and 1 credit for Component Area IX as well as the major. MATH 1410 will also satisfy the prerequisite requirement for PHYS 1301.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.

3 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Core Component Area VII (Social and Behavioral Sciences).

4 BIOL 3390 is offered in Fall semesters only.

5 CHEM 3438 is taken for the Chemistry Concentration. All other options are acceptable for non-chemistry concentrations.

6 CHEM 3438 is offered Fall or Summer I.

7 PHYS 1403 is taken for the Biology and Earth Science concentration, and CHEM 2323 and CHEM 2123 are taken for the Chemistry Concentration.

8 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

9 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must earn cumulative 2.0 minimum GPA in all Composite Science major coursework.

If the math requirement for PHYS 1301 is not met, or a prerequisite override is not given, MATH 1316 may need to be taken, which will add 3 semester credit hours to the degree plan.

Students must earn a "C" or better in all Education coursework. Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

Concentrations

Code	Title	Hours
Geology Concentration		
Choose three of the following:		9-12
GEOL 3326	Environmental Geology	
GEOL 3332	Forensic Geology	
GEOL 4312	Economic Geology	
GEOL 4331	Geology of North America	
GEOL 4337	Plate Tectonics	
GEOL 4402	Structural Geology	
GEOL 4426	Hydrogeology	
GEOG 4432	Geomorphology	
Total Hours		**9-12**

Code	Title	Hours
Biology Concentration		
Choose three of the following:		11-12
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3450	Introductory Genetics	
BIOL 3461	Wildlife Biology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	

BIOL 4330	Aquatic Biology	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4490	Cell Biology	
Total Hours		**11-12**

Code	Title	Hours
Chemistry Concentration		
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3367	Introduction to Inorganic Chemistry	3
Choose two of the following:		6-7
CHEM 3339	Biochemistry II	
CHEM 4442	Air Quality [1]	
CHEM 3361	Discoveries In Chemistry and Textiles	
CHEM 3368	Environmental Chemistry	
Total Hours		**13-14**

[1] CHEM 4442 requires CHEM 2401 as a prerequisite.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IV (p. 89)	3	Component Area VI (p. 90)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	1
Component Area VI (p. 90)	3	BIOL 1406	4
BIOL 1436	4	CHEM 1411[2]	4
MATH 1314 or 1410[1]	3-4	GEOG 1401	4
	19-20		**19**

Second Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area VII (p. 90)	3
Component Area IX (p. 91)	3	Component Area VIII (p. 90)[3]	3
BIOL 1407	4	CISE 4374	3
CHEM 1412[2]	4	GEOL 1403	4
CISE 3384	3	PHYS 1301 & PHYS 1101[1]	4
	17		**17**

Third Year

Fall	Hours	Spring	Hours
BIOL 2440	4	Concentration Courses	3-4
CHEM 2323 & CHEM 2123 (or PHYS 1403)[4,5]	4	GEOL 3330, CHEM 3438, GEOG 3301, BIOL 4361, BIOL 4306, PHIL 4306, or HLTH 4390[5,6]	3-4
GEOL 1404	4	READ 4378	3
PHYS 1302 & PHYS 1102	4	SPED 3301	3
TESL 4303	3	STAT 3379	3
	19		**15-17**

Fourth Year			
Fall	**Hours**	**Spring**	**Hours**
Concentration Course		3-4 CISE 4394	3
BIOL 3390[7]		3 CISE 4396	3
CISE 4364		3 CISE 4397	3
CISE 4377		3	
CISE 4379		3	
		15-16	**9**

Total Hours: 130-134

1 MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major. Students may need to take MATH 1316 in order to take PHYS 1301 unless a prerequisite override is given by the Physics Department Chair. MATH 1410 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and 1 credit for Component Area IX as well as the major. MATH 1410 will also satisfy the prerequisite requirement for PHYS 1301.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.

3 PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Core Component Area VIII (Social and Behavioral Sciences).

4 PHYS 1403 is taken for the Biology and Earth Science concentration, and CHEM 2323 and CHEM 2123 are taken for the Chemistry Concentration.

5 CHEM 3438 is taken for the Chemistry Concentration. All other options are acceptable for non-chemistry concentrations.

6 CHEM 3438 is offered Fall or Summer I.

7 BIOL 3390 is offered in Fall semesters only.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must earn cumulative 2.0 minimum GPA in all Composite Science major coursework.

If the math requirement for PHYS 1301 is not met, or a prerequisite override is not given, MATH 1316 may need to be taken, which will add 3 semester credit hours to the degree plan.

Students must earn a "C" or better in all Education coursework. Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Concentrations

Code	Title	Hours
Geology Concentration		
Choose three of the following:		9-12
GEOL 3326	Environmental Geology	
GEOL 3332	Forensic Geology	
GEOL 4312	Economic Geology	
GEOL 4331	Geology of North America	
GEOL 4337	Plate Tectonics	
GEOL 4402	Structural Geology	
GEOL 4426	Hydrogeology	
GEOG 4432	Geomorphology	
Total Hours		**9-12**

Code	Title	Hours
Biology Concentration		
Choose three of the following:		12
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3450	Introductory Genetics	
BIOL 3461	Wildlife Biology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4330	Aquatic Biology	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4490	Cell Biology	
Total Hours		**12**

Code	Title	Hours
Chemistry Concentration		
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3367	Introduction to Inorganic Chemistry	3
Choose two of the following:		6-7
CHEM 3339	Biochemistry II	
CHEM 4442	Air Quality [1]	
CHEM 3361	Discoveries In Chemistry and Textiles	
CHEM 3368	Environmental Chemistry	
Total Hours		**13-14**

[1] CHEM 4442 requires CHEM 2401 as a prerequisite.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS with a Double Major in Education and Composite Science is designed to provide graduates with the following marketable skills:

- Prepared to teach Biology, Physics, Chemistry, Earth Science and Astronomy content for Texas teacher certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public high schools

Bachelor of Science, Double Major in Education and History

Code	Title	Hours
Bachelor of Science, Double Major in Education and History		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8

Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Required (Education)		
CISE 3383	Planning Instruction With Technology Integration	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4374	Human Growth and Learning	3
CISE 4377	Assessment of Student Learning In Secondary Grades	3
CISE 4379	Differentiated Pedagogy	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
READ 4378	Multiple Literacies in Secondary Education	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 4303	Teaching English As A Second Language	3
Major: Required (History)		
HSTY 3310	African Civilizations to 1800	3
HSTY 3315	Middle East to 1600	3
HSTY 3317	Silk Roads to Mongol Empire	3
or HSTY 3338	Britain to 1714	
HSTY 3333	Renaissance Europe	3
or HSTY 3341	Early Modern France	
HSTY 3335	Europe & the World 1618-1789	3
HSTY 3362	Colonization of America	3
HSTY 3364	United States Early Republic	3
or HSTY 3365	United States Civil War Era	
HSTY 3369	Boomers to Zoomers	3
or HSTY 3368	The American Century	
HSTY 3384	Texas History	3
HIST 3390	Conceptualizing History Education	3
HSTY 4399	History Senior Seminar	3
HIST Advanced Electives [2]		
Select two from the course list below [2]		6
Student Teaching		
CISE 4380	Responsibilities of the Professional Educator	3
CISE 4396	Student Teaching - Secondary Classroom	3
CISE 4397	Student Teaching - Secondary Classroom	3
Minor: Not Required [3,4]		
Total Hours		**120**

1 MATH 1332 is recommended.

2 Select two HSTY Advanced Electives from the course list below.

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a cumulative 2.75 minimum GPA in History coursework.

Students must earn a 2.75 minimum GPA (overall or in the last 60 semester hours) to earn teacher certification.

Students must earn a 2.75 minimum (or in the last 60 semester hours) GPA in all Education coursework (SHSU and cumulative).

Code	Title	Hours
HIST Advanced Electives [2]		
HSTY 3311	African Civilizations since 1800	3
HSTY 3312	Early Christianities	3
HSTY 3316	Modern Middle East	3
HSTY 3318	Japan: Age of the Samurai	3
HSTY 3321	Modern Asian History	3
HSTY 3323	Modern China	3
HSTY 3330	Ancient History	3
HSTY 3331	Roman Empire to Byzantium	3
HSTY 3332	Medieval Europe	3
HSTY 3336	Nineteenth Century Europe	3
HSTY 3337	Austria-Hungary and its Legacy	3
HSTY 3338	Britain to 1714	3
HSTY 3339	Modern Britain	3
HSTY 3340	British Empire	3
HSTY 3341	Early Modern France	3
HSTY 3342	French Revolution & Napoleon	3
HSTY 3343	Germany at War and Peace	3
HSTY 3344	Russian and Soviet Empires	3
HSTY 3345	History of Medicine	3
HSTY 3351	Modern Mexico	3
HSTY 3352	Colonial Latin America	3
HSTY 3354	Slavery & Freedom in Americas	3
HSTY 3360	Native America to 1840	3
HSTY 3361	Native America sn 1840	3
HSTY 3363	Age of Independence	3
HSTY 3365	United States Civil War Era	3
HSTY 3367	Incorporating America	3
HSTY 3368	The American Century	3
HSTY 3370	African American Hist to 1865	3
HSTY 3371	African America Hist sn 1865	3
HSTY 3373	Black Civil Rights Movement	3
HSTY 3374	Witches, Quakers, Shakers	3
HSTY 3375	Social Gospel to Mega Church	3
HSTY 3376	Mexican American Hist to 1848	3
HSTY 3377	Mexican American History Since 1848	3
HSTY 3379	U.S. Women to 1900	3
HSTY 3380	U.S. Women since 1900	3
HSTY 3381	U.S. South to 1865	3
HSTY 3382	U.S. South sn 1865	3
HSTY 3383	The U.S. West	3
HSTY 3385	Borderlands History	3

HSTY 3386	Rise of Convservatism	3
HSTY 3387	American Immigration	3
HSTY 3388	United Stated Military History	3
HSTY 3390	Vietnam War	3
HSTY 3392	Historiography	3
HSTY 3393	Environmental History	3
HSTY 3394	History of Capitalism	3
HSTY 3395	Working Class History	3
HSTY 3396	Gender and Sexualities	3
HSTY 3397	Urban/Suburban History	3
HSTY 3398	History of Popular Culture	3
HSTY 3399	Special Topics in History	3

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area II (p. 89)[3]	3
Component Area IV (p. 89)	3	Component Area III (p. 89)	4
Component Area V (p. 90)	3	Component Area IX (p. 91)	1
ENGL 1301[1]	3	ENGL 1302[1]	3
HSTY 1301[2]	3	HSTY 1302[2]	3
		POLS 2305	3
	16		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	Component Area VIII (p. 90)	3
HSTY 3384	3	CISE 3384	3
HSTY 3333 or 3341	3	HSTY 3317 or 3338	3
HSTY 3362	3	HSTY 3335	3
POLS 2306	3	HSTY 3364 or 3365	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
CISE 4374	3	CISE 3383	3
SPED 3301	3	CISE 4394	3
HSTY 3310	3	HIST 3390	3
HSTY 3315	3	HSTY Advanced Electives[4]	3
HSTY 3369 or 3368	3	READ 4378	3
TESL 4303	3		
	18		**15**

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4380	3
CISE 4377	3	CISE 4396	3
CISE 4379	3	CISE 4397	3
HSTY 4399	3		
HSTY Advanced Electives [4]	3		
	15		**9**

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area I (Communication).
2 Satisfies both the Core Curriculum requirement for Component Area VI (U.S. History) and the major.
3 MATH 1332 is recommended.

[4] Select two HSTY Advanced Electives from the course list below.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a cumulative 2.75 minimum GPA in History coursework.

Students must earn a 2.75 minimum GPA (overall or in the last 60 semester hours) to earn teacher certification.

Students must earn a 2.75 minimum (or in the last 60 semester hours) GPA in all Education coursework (SHSU and cumulative).

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Code	Title	Hours
HIST Advanced Electives [4]		
HSTY 3311	African Civilizations since 1800	3
HSTY 3312	Early Christianities	3
HSTY 3316	Modern Middle East	3
HSTY 3318	Japan: Age of the Samurai	3
HSTY 3321	Modern Asian History	3
HSTY 3323	Modern China	3
HSTY 3330	Ancient History	3
HSTY 3331	Roman Empire to Byzantium	3
HSTY 3332	Medieval Europe	3
HSTY 3336	Nineteenth Century Europe	3
HSTY 3337	Austria-Hungary and its Legacy	3
HSTY 3338	Britain to 1714	3
HSTY 3339	Modern Britain	3
HSTY 3340	British Empire	3
HSTY 3341	Early Modern France	3
HSTY 3342	French Revolution & Napoleon	3
HSTY 3343	Germany at War and Peace	3
HSTY 3344	Russian and Soviet Empires	3
HSTY 3345	History of Medicine	3
HSTY 3351	Modern Mexico	3
HSTY 3352	Colonial Latin America	3
HSTY 3354	Slavery & Freedom in Americas	3
HSTY 3360	Native America to 1840	3
HSTY 3361	Native America sn 1840	3
HSTY 3363	Age of Independence	3
HSTY 3365	United States Civil War Era	3
HSTY 3367	Incorporating America	3
HSTY 3368	The American Century	3
HSTY 3370	African American Hist to 1865	3
HSTY 3371	African America Hist sn 1865	3
HSTY 3373	Black Civil Rights Movement	3

HSTY 3374	Witches, Quakers, Shakers	3
HSTY 3375	Social Gospel to Mega Church	3
HSTY 3376	Mexican American Hist to 1848	3
HSTY 3377	Mexican American History Since 1848	3
HSTY 3379	U.S. Women to 1900	3
HSTY 3380	U.S. Women since 1900	3
HSTY 3381	U.S. South to 1865	3
HSTY 3382	U.S. South sn 1865	3
HSTY 3383	The U.S. West	3
HSTY 3385	Borderlands History	3
HSTY 3386	Rise of Convservatism	3
HSTY 3387	American Immigration	3
HSTY 3388	United Stated Military History	3
HSTY 3390	Vietnam War	3
HSTY 3392	Historiography	3
HSTY 3393	Environmental History	3
HSTY 3394	History of Capitalism	3
HSTY 3395	Working Class History	3
HSTY 3396	Gender and Sexualities	3
HSTY 3397	Urban/Suburban History	3
HSTY 3398	History of Popular Culture	3
HSTY 3399	Special Topics in History	3

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The BS with a Double Major in Education and History is designed to provide graduates with the following marketable skills:

- Prepared to teach History content for Texas teacher certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public high schools.

Bachelor of Science, Double Major in Education and Interdisciplinary Agriculture

Code	Title	Hours
Bachelor of Science, Double Major in Education and Interdisciplinary Agriculture		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction to Computers	
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
KINE 2115	Lifetime Health and Wellness [5]	1
or ECON 1100	Economics of Social Problems	

or NGLI 1101	Research in the Digital Age	
or UNIV 1101	Bearkat U	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1332	College Mathematics	
or MATH 1342	Elementary Statistics	
Major: Required (Education)		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
READ 4378	Multiple Literacies in Secondary Education	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 4303	Teaching English As A Second Language	3
Major: Required (Interdisciplinary Agriculture)		
ACOM 3360	Communication Skills for Agriculturists	3
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2389	Agribusiness Financial Analysis	3
or AGBU 3350	Agribusiness for Agriculture Education Teachers	
AGED 3310	Teaching Agricultural Technology	3
AGED 3320	The Secondary Agriculture Education Program	3
AGED 4388	Secondary Agriculture Education Program Management	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGET 4384	Fusing & Joining of Metals & Non-Metals	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Management Techniques	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 2399	Floral Design [3]	3
PLSC 4370	Forage Crops and Pasture Management	3
or PLSC 3395	Plant Propagation Techniques	
Advanced PLSC Elective		3
Major: Prescribed Electives		
Select 3 hours from Animal Production Electives:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Management	
ANSC 4380	Beef Cattle Production & Management	
EQSC 2364	Equine Science	
WMGT 2301	Principles of Wildlife Management	
Secondary Ed Courses - AGED		
AGED 4364	Methods of Teaching Agriculture Education	3
AGED 4365	Student Teaching in Agriculture Education	3
AGED 4366	Student Teaching in Agriculture Education	3
AGED 4394	Agriculture Education Learning Environments	3
Minor: Not Required [6,7]		
Total Hours		**125**

1 MATH 1314, MATH 1324, MATH 1332, of MATH 1342 satisfy Core Curriculum requirement for Component Area II (Mathematics).
2 CHEM 1406 satisfies the Core Curriculum requirement for Component Area II (Life and Physical ScienceI and the Degree Specific Requirement.
3 PLSC 2399 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and the major.
4 ANSC 2360 is recommended.

[5] Satisfies one hour of Core Curriculum requirement for Component Area IX (Component Area Option).

[6] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours

[7] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a "C" or better in all Education coursework.

Students must earn a 2.75 GPA (overall or in the last 60 hours) to be eligible for teacher certification.

First Year

Fall	Hours	Spring	Hours
MATH 1314, 1324, 1332, or 1342[1]	3	Component Area VIII (p. 90)[5]	3
ANSC 1319 & ANSC 1119	4	AGET 2303	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
KINE 2115, NGLI 1101, ECON 1100, or UNIV 1101[4]	1	PLSC 1307 & PLSC 1107	4
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
AGBU 2317	3	AGBU 2389 or 3350	3
AGRI 1309 or CSTE 1330	3	CHEM 1406[8]	4
PLSC 2399[6]	3	CISE 3384	3
POLS 2305[7]	3	POLS 2306[7]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGED 3320	3	Component Area IX (p. 91)	3	AGED 3310	3
AGET 4384	3	ANSC 4360	3	AGED 4388	3
ANSC 3373	3	READ 4378	3		
CISE 4380	3	SPED 3301	3		
PLSC Advanced Elective	3	Animal Production Elective[9]	3		
	15		**15**		**6**

Fourth Year

Fall	Hours	Spring	Hours
ACOM 3360	3	AGED 4364	3
CISE 4364	3	AGED 4365	3
CISE 4379	3	AGED 4366	3

PLSC 4370 or 3395	3 AGED 4394	3
TESL 4303	3	
	15	**12**

Total Hours: 125

1 MATH 1314, MATH 1324, MATH 1332, or MATH 1342 satisfy Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies the Core Curriculum requirement for Component Area I (Communication).
3 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies one hour of Core Curriculum requirement for Component Area IX (Component Area Option).
5 ANSC 2360 is recommended.
6 Satisfies Core Curriculum requirement for Component Area V (Creative Arts) and majors.
7 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
8 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
9 Select one of the Animal Production Elective courses from the list below.

Code	Title	Hours
Animal Production Electives [6]		
ANSC 3376	Meat Science	3
ANSC 4376	Sheep & Goat Production & Management	3
ANSC 4380	Beef Cattle Production & Management	3
EQSC 2364	Equine Science	3
WMGT 2301	Principles of Wildlife Management	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a "C" or better in all Education coursework.

Students must earn a 2.75 GPA (overall or in the last 60 hours) to be eligible for teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS with a Double Major in Education and Interdisciplinary Agriculture is designed to provide graduates with the following marketable skills:

- Demonstrate technical knowledge and skills necessary for entry level Agriculture, Food, and Natural Resources teachers in Agricultural Business, Agricultural Communication, Agricultural Engineering Technology, Animal Science, and Plant and Soil Science.
- Manage, organize, and conduct Supervised Agricultural Experience Programs, Leadership, Career, and Speaking Development Events.
- Develop annual and long range plans (program of activity, semester and lesson plans, etc.)
- Use effective research-based techniques to develop a positive classroom environment.
- Create lessons and units of instruction to meet the Texas Essential Knowledge and Skills requirements for Agriculture, Food, and Natural Resources classes.

Bachelor of Science, Double Major in Education and Kinesiology

This double major degree program prepares students to teach Physical Education at the Pre-K through 12th grade level in the state of Texas. Students will participate in methods and student teaching as the culminating component of their degree. Students will be prepared to sit for the TExES Physical Education Certification exam. The content of the program is aligned with the Society of Health and Physical Educators (SHAPE) and Council for the Accreditation of Educator Preparation (CAEP) Initial PETE standards. Students completing this degree plan will also complete and earn the Sport Coaching Certification (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/undergraduate-certificate-sport-coaching/) (A separate application is required for certification at the time of graduation).

Code	Title	Hours
Bachelor of Science, Double Major in Education and Kinesiology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 4]	4
BIOL 2404	Human Anatomy & Physiology II [2, 4]	4
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1332	College Mathematics	
Major: Required (Education)		
CISE 3383	Planning Instruction With Technology Integration	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4377	Assessment of Student Learning In Secondary Grades	3
CISE 4379	Differentiated Pedagogy	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
READ 4378	Multiple Literacies in Secondary Education	3
TESL 4303	Teaching English As A Second Language	3
Major: Required (Kinesiology)		
ATTR 3370	Prevention & Care of Injuries [5]	3
KINE 1114	Rhythmic Activities & Dance	1
KINE 1331	Foundations of Kinesiology [5, 6]	3
KINE 2114	Weight Training and Physical Conditioning	1
KINE 2115	Lifetime Health and Wellness [3]	1
KINE 3320	Foundations of Sport Coaching [5]	3
KINE 3321	Applied Kinesiology [5]	3
KINE 3363	Assessment in Kinesiology [8,9]	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3368	Skill Themes and Movement Concepts [7,8]	3
KINE 3372	Sport Skills Analysis [5]	3
KINE 4363	Elementary Physical Education [7,10]	3
KINE 4335	Sport and Exercise Psychology [5,11]	3
or KINE 4314	Advanced Strength Training	
KINE 4364	Fitness Education [7,8,9]	3
KINE 4366	Teaching Secondary Physical Education [8]	3
KINE 4369	Adapted Physical Activity [7]	3

KINE Fundamentals of Coaching Classes (Select 4 hours from the following): [6]		**4**
KINE 3100	Fundamentals of Basketball Coaching [6]	
KINE 3101	Fundamentals of Volleyball Coaching [6]	
KINE 3102	Fundamentals of Football Coaching [6]	
KINE 3103	Fundamentals of Track & Field/Cross Country Coaching [6]	
KINE 3104	Fundamentals of Baseball and Softball Coaching [6]	
KINE 3105	Fundamentals of Soccer Coaching [6]	
KINE 3117	Competency in Motor Skills [6]	
Student Teaching		
CISE 4380	Responsibilities of the Professional Educator	3
CIEE 4392	Student Teaching Elementary School	3
CISE 4396	Student Teaching - Secondary Classroom	3
Minor: Not Required [12,13]		
Total Hours		**123**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
3 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
5 This course is also offered in the summer. In addition, this course will count toward the sport coaching certificate.
6 KINE 1331 is a prerequisite for all upper-level KINE and ATTR courses. This class must be taken your freshman year. Transfer students must take it their first semester.
7 Field-based experiences are required.
8 This course is offered in the Fall.
9 This course is also offered in the Summer.
10 This course is offered in the Spring.
11 Students pursuing the Sport Coaching Certificate (p. 671) must take KINE 4335.
12 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
13 All minors, except Sport Coaching, can be paired with this degree program but may result in additional semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a "C" or better in all Kinesiology/Athletic Training and Education coursework.

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and cumulative).

Students must earn an overall GPA of 2.75 to earn teacher certification.

KINE 1331 should be taken during Freshman or Sophomore year.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence.

Physical Education Teacher candidates must be in the *Healthy Fitness Zones* of at least two of the health-related fitness components of the FITNESSGRAM battery test (body composition, muscular strength and endurance, flexibility, and aerobic capacity) before enrolling in student teaching (CISE 4380, CISE 4396, and CIEE 4392).

CISE 3384 is the prerequisite to all Secondary Education Program courses.

ATTR 3370 requires a prerequisite of BIOL 2403 and 45 + hours.

KINE 3363 and KINE 3368 require Junior Standing and KINE 1331 or ATTR 2300.

KINE 4363 has a prerequisite of KINE 3368. Field-based experiences required.

KINE 4366 has a prerequisite of KINE 3368 and KINE 4363.

KINE 4364 has a prerequisite of KINE 3373 or KINE 3321.

First Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 Component Area IV (p. 89)	3
ENGL 1301[1]		3 BIOL 2403[7,8]	4
HSTY 1301[2]		3 ENGL 1302[1]	3
KINE 1331[3,4]		3 HSTY 1302[2]	3
KINE 2115[5]		1 POLS 2306[9]	3
MATH 1314 or 1332[6]		3	
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)		3 ATTR 3370[4]	3
Component Area IX (p. 91)		3 KINE 3320[4]	3
BIOL 2404[7,8]		4 KINE 3363[10, 11]	3
CISE 3384		3 KINE 3372[4]	3
KINE 1114		1 KINE Fundamentals of Coaching Classes (select 3)[3]	3
POLS 2305[9]		3	
	17		**15**

Third Year

Fall	Hours	Spring	Hours
CISE 3383		3 CISE 4394	3
KINE 2114		1 KINE 3367	3
KINE 3321[4]		3 KINE 4363[12,13]	3
KINE 3364		3 KINE 4364[10,11,12]	3
KINE 3368[11,12]		3 READ 4378	3
KINE 4369[12]		3 TESL 4303	3
KINE Fundamentals of Coaching Classes (select 1)[3]		1	
	17		**18**

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364		3 CISE 4380	3
CISE 4377		3 CIEE 4392	3
CISE 4379		3 CISE 4396	3
KINE 4314 or 4335[4, 14]		3	
KINE 4366[11]		3	
	15		**9**

Total Hours: 123

1 Satisfies Core Curriculum requirement for Component Area I (Communication).
2 Satisfies Core Curriculum requirement for Component Area VI (US History).
3 KINE 1331 is a prerequisite for all upper level KINE and ATTR courses. This class must be taken your freshman year. Transfer students must take it their first semester.
4 This course also counts toward a sport coaching certificate. This course is also offered in the Summer.
5 Satisfies 1 credit hour of Core Curriculum Component Area IX (Component Area Option).
6 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
7 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
8 BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement; please, see a SAM Center advisor for more details.
9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
10 This course is also offered in the Summer.
11 This course is offered in the Fall.

[12] Field-based experiences are required.
[13] This course is offered in the Spring.
[14] Students pursuing the Sport Coaching Certificate must take KINE 4335.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a "C" or better in all Kinesiology/Athletic Training and Education coursework.

Students must earn a 2.75 minimum GPA in all Education coursework (SHSU and cumulative).

Students must earn an overall GPA of 2.75 to earn teacher certification.

KINE 1331 should be taken during Freshman or Sophomore year.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence.

Physical Education Teacher candidates must be in the *Healthy Fitness Zones* of at least two of the health-related fitness components of the FITNESSGRAM battery test (body composition, muscular strength and endurance, flexibility, and aerobic capacity) before enrolling in student teaching (CISE 4380, CISE 4396, and CIEE 4392).

CISE 3384 is the prerequisite to all Secondary Education Program courses.

ATTR 3370, requires a prerequisite of BIOL 2403 and 45 + hours.

KINE 3363 and KINE 3368 require Junior Standing and KINE 1331 or ATTR 2300.

KINE 4363 has a prerequisite of KINE 3368. Field-based experiences required.

KINE 4364 has a prerequisite of KINE 3373 or KINE 3321.

KINE 4366 has a prerequisite of KINE 3368 and KINE 4363.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS with a Double Major in Education and in Kinesiology is designed to provide graduates with the following marketable skills:

- Content and pedagogical knowledge to teach physical education in Pre K-12 schools.
- Ability to promote physical activity beyond the physical education setting.
- Knowledge of Skill Themes, Sport Education, and Fitness Education instructional models.
- Student-centered physical education teachers.
- Culturally responsive and inclusive.
- Appropriate professional and ethical teacher behaviors.
- Fully certified to teach physical education in Pre K-12 schools.

Bachelor of Science, Double Major in Education and Mathematics

Code	Title	Hours
Bachelor of Science, Double Major in Education and Mathematics		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		4
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		3
Degree Specific Requirements		
ENGL 2332	World Literature I: Before the 17th Century [2]	3
MATH 1420	Calculus I [1]	4
Major: Required (Education)		
CISE 3383	Planning Instruction With Technology Integration	3
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4374	Human Growth and Learning	3
CISE 4377	Assessment of Student Learning In Secondary Grades	3
CISE 4379	Differentiated Pedagogy	3
CISE 4394	Creating an Environment For Learning-Secondary Education	3
READ 4378	Multiple Literacies in Secondary Education	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 4303	Teaching English As A Second Language	3
Major: Required (Mathematics)		
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction to Mathematics Thought	3
MATH 3363	Euclidean Geometry	3
MATH 3377	Introduction to Linear Algebra and Matrices	3
MATH 3379	Statistical Methods in Practice	3
MATH 4367	The Evolution of Mathematics	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
MATH Advance Electives		9
Student Teaching		
CISE 4380	Responsibilities of the Professional Educator	3
CISE 4396	Student Teaching - Secondary Classroom	3
CISE 4397	Student Teaching - Secondary Classroom	3
Minor: Not Required [3,4]		
Total Hours		**122**

1. Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. ENGL 2332 satisfies both the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.
3. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
4. The following minor cannot be paired with this degree program: Minor in Mathematics.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.5 minimum overall GPA in Mathematics major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a "C" or better in all Mathematics coursework. Students must earn cumulative 2.5 minimum GPA in all Mathematics coursework.

Students must earn a "C" or better in all Education coursework. Students must earn an overall GPA of 2.75 to be eligible for teacher certification.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
ENGL 1301[1]	3	ENGL 1302[1]	3
HSTY 1301[2]	3	MATH 1430	4
MATH 1420[3]	4	MATH 3379	3
	17		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	CISE 3384	3
HSTY 1302[2]	3	CISE 4374	3
MATH 2440	4	MATH 3363	3
MATH 3300	3	MATH 3377	3
POLS 2305[4]	3	POLS 2306[4]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
MATH 4367	3	CISE 3383	3
MATH 4377	3	CISE 4394	3
MATH 4385	3	MATH 4384	3
SPED 3301	3	READ 4378	3
TESL 4303	3	MATH Advanced Elective	3
MATH Advanced Elective	3		
	18		**15**

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4380	3
CISE 4377	3	CISE 4396	3
CISE 4379	3	CISE 4397	3
ENGL 2332[5]	3		
MATH Advanced Elective	3		
	15		**9**

Total Hours: 122

1 Satisfies the Core Curriculum requirement for Component Area I (Communications).
2 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
4 Satisfies the Core Curriculum requirement for Component Area VII (Political Science).

[5] ENGL 2332 satisfies both the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must maintain a 2.5 minimum overall GPA in Mathematics major coursework.

Students must maintain a 2.75 GPA or greater overall or in the last 60 semester hours. This includes transfer and SHSU courses.

Students must earn a "C" or better in all Mathematics coursework. Students must earn cumulative 2.5 minimum GPA in all Mathematics coursework.

Students must earn a "C" or better in all Education coursework. Students must earn an overall GPA of 2.75 to be eligible for teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Mathematics.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS with a Double Major in Education and Mathematics is designed to provide graduates with the following marketable skills:

- Prepared to teach Mathematics content for Texas teacher certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public high schools.

Minor in Applied Behavior Analysis

The Minor in Applied Behavior Analysis (ABA) is designed to provide students with a general understanding of the scientific application of behavioral principles to socially significant behaviors. The minor requires 18 semester credit hours (six courses) in special education. All ABA minor courses are offered online and are taught by Board Certified Behavior Analysts.

Students interested in pursuing the Board Certified Assistant Behavior Analyst® (https://www.bacb.com/bcaba/) credential should contact the ABA minor coordinator for additional information.

The Association for Behavior Analysis International has verified the following courses toward the coursework requirements for eligibility to take the Board Certified Assistant Behavior Analyst® (BCaBA) (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.bacb.com%2Fbcaba%2F&data=05%7C01%7Carg019%40SHSU.EDU%7C1c7396e5f5af41a7c5eb08da68f2a330%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637937688571756918%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=RY5PoEVEMleA40iJ%2FeFTY%2BYOmg080q4yOqYCohY8WK4%3D&reserved=0)examination until December 31, 2026. After that date, the courses will not be valid. Applicants will need to meet additional requirements before they can be deemed eligible to take the examination.

Code	Title	Hours
Minor in Applied Behavior Analysis		
Required Courses		
SPED 2301	Introduction to Exceptionality	3
SPED 3306	Behavioral Principles	3
SPED 3307	Behavioral Assessment, Intervention, and Evaluation [1]	3
SPED 3308	Behavioral Intervention and Research Methods	3
SPED 3309	Ethics in Behavior Analysis [2]	3
SPED 3310	Advanced Behavior Analysis [3]	3
Total Hours		**18**

[1] SPED 3305 may be substituted for SPED 3307, but it does not meet the coursework requirements for eligibility to sit for the BCaBA exam.

[2] PHIL 2306 may be substituted for SPED 3309 but it does not meet the coursework requirements for eligibility to sit for the BCaBA exam.
[3] SPED 3312 may be substituted for SPED 3310, but it does not meet the coursework requirements for eligibility to sit for the BCaBA exam.

Minor in Early Childhood Education

A Minor in Early Childhood Education consists of the following courses:

Code	Title	Hours
Minor in Early Childhood Education		
Required Courses		
ECHE 3313	Early Childhood Cognition	3
ECHE 3302	Early Childhood Education Theories	3
ECHE 3325	Creative Arts for Educators	3
ECHE 3363	Working With Families in Diverse Communities	3
or ECHE 4088	Special Topics in Early Childhood Education	
ECHE 4333	Developmentally Appropriate Programs for Young Children	3
ECHE 4350	Preschool Child Wellness	3
Total Hours		**18**

Minor in Special Education

The Minor in Special Education provides a pathway for College of Education students majoring in grades 4-8 certification tracks or the grades 7-12 certification tracks to also graduate with a teaching certification in the area of special education. The Minor in Special Education consists of the following courses:

Code	Title	Hours
Minor in Special Education		
Required Courses		
SPED 2301	Introduction to Exceptionality	3
SPED 3301	Learning and Instruction for Children with Disabilities	3
SPED 3302	Emotional/Behavioral Disorders	3
SPED 3303	Supporting Social Success	3
SPED 3312	Family and Diversity Issues in Special Education	3
or SPED 4311	Content Learning in Special Education	
SPED 4304	Transition Planning in Special Education	3
Total Hours		**18**

College of Health Sciences

Administrative Officers

Title/Department	Officer
Dean	Ryan K. Zapalac, Ph.D. rzapalac@shsu.edu; (936) 294-2395
Associate Dean	Jennifer A. Bunn, Ph.D. jab229@shsu.edu; (936) 294-2393
Associate Dean	Ronald L. Reed, M.S. rlr054@shsu.edu; (936) 294-2392
Department of Human Sciences	Keila Tyner, Ph.D., Interim Chair keilatyner@shsu.edu; (936) 294-1241
Department of Kinesiology	Jennifer J. Didier, Ph.D., Chair jennifer.didier@shsu.edu; (936) 294-1398
Department of Public Health	Amanda Scarbrough, Ph.D., Chair aes060@shsu.edu; (936) 294-1168
School of Nursing	Devon M. Berry, Ph.D., Director devonmberry@shsu.edu; (936) 202-5116

About the College

The College of Health Sciences (COHS) consists of the Department of Human Sciences, the Department of Kinesiology, the Department of Public Health, and the School of Nursing. The College is comprised of undergraduate and graduate degrees focusing on clinical training and work-based learning. Internships in prestigious healthcare and medical fields, hospitals, sports organizations, government agencies, and volunteer agencies are available for many of the degree fields.

The COHS offers the most up-to-date curricula using the latest technologies. Degree fields include human sciences, kinesiology, nursing, and public health, as well as preparation for further medical study in areas such as occupational therapy, chiropractic, and physical therapy. Some of the degree areas allow for an international focus--with language immersion--through study abroad opportunities to expand the student learning experience.

Factors such as an aging population, new medical technologies, and federal legislation have increased the need for qualified healthcare employees, educators, and professionals. The COHS has made great advancements in addressing those demands by offering programs that will increase the number of educated employees for the Texas workforce.

The COHS promotes healthy living by preparing professionals for health and medical careers with a quality education at an affordable cost. Graduates will be prepared to succeed in their chosen health profession through mastery of the appropriate knowledge and skills, a well-developed sense of professionalism, and a strong commitment to promoting health and providing quality care.

Mission

The College of Health Sciences prepares students for meaningful professions in health and human sciences, fostering a spirit of inquiry and exploration. Our focus is on immersive, community-engaged education aimed at empowering individuals, families, and communities across East Texas. By prioritizing student-centered learning, real-world engagement, research, and healthcare outreach, we aim to contribute positively to the state of Texas and beyond.

Vision

Cultivating the next generation of leaders in health and human sciences.

Core Values

- **Student-Centric:** We prioritize the success, growth, and well-being of our students, placing their needs at the center of our educational and support efforts.
- **Belonging:** We cultivate an environment where every member of our community feels valued and respected, with a sense of belonging and well-being.
- **Discovery:** We promote an ethos of curiosity and inquiry in the classroom and beyond to advance the body of knowledge throughout health and human sciences disciplines.
- **Transformational:** We are committed to creating positive impacts through our work in education, research, and community practice.
- **Collaboration:** We foster teamwork and partnerships within our college, across the university, and with community organizations to achieve common goals.

Highlights

- The School of Nursing became an accredited nursing program by the Accreditation Commission for Education in Nursing (ACEN formerly NLNAC) in August 2013 and received full approval by the Texas Board of Nursing for the Baccalaureate Degree Nursing Education Program in January 2014.
- Graduates of the School of Nursing have a 94% first time pass rate (2023) on the National Council Licensure Examination (NCLEX), which is above state and national averages. Repeat NCLEX pass rate is 100% (2023).
- The MS in Athletic Training (MSAT) program has received initial accreditation from the Commission on Accreditation of Athletic Training Education (CAATE) (2023-2028).
- The Physical Education Teacher Education (PETE) Program in the Department of Kinesiology is accredited by the Council for Educator Preparation (CAEP) and the Society of Health and Physical Educators (SHAPE).
- Study Abroad opportunities in Human Sciences, Kinesiology, Public Health, and Nursing.
- The Interior Design Program is accredited by the Council for Interior Design Accreditation (CIDA) and the National Association for Schools of Art and Design (NASAD).
- The MS in Dietetic Internship Program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of The Academy of Nutrition and Dietetics.
- The Food Science and Nutrition Program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of The Academy of Nutrition and Dietetics.

Academic Programs

Department of Human Sciences

- Bachelor of Arts, Major in Interior Design (p. 626)
- Bachelor of Science, Major in Fashion Merchandising (p. 630)
- Bachelor of Science, Major in Food Science and Nutrition (p. 633)
- Bachelor of Science, Major in Interior Design (p. 637)
- Minor in Fashion Merchandising (p. 641)
- Minor in Human Nutrition (p. 642)
- Minor in Interior Design (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/family-consumer-sciences/#programstext)

Department of Kinesiology

- Bachelor of Science, Major in Human Performance and Wellness Management (p. 649)
- Bachelor of Science, Major in Kinesiology (p. 654)
- Bachelor of Science, Double Major in Education and Kinesiology (p. 611)
- Bachelor of Science, Major in Kinesiology (Clinical Exercise Science) (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/)
- Bachelor of Science, Major in Kinesiology (Clinical Exercise Science), 3+2 MSAT (p. 663)
- Undergraduate Certificate in Sport Coaching (p. 671)
- Minor in Kinesiology (p. 672)
- Minor in Sport Coaching (p. 719)

School of Nursing

- Bachelor of Science, Major in Nursing (BSN) (p. 727)
- RN to BSN (p. 734)
- LVN to BSN (p. 730)

Department of Public Health

- Bachelor of Arts, Major in Bilingual Health Care Studies; Minor in Foreign Language (p. 682)
- Bachelor of Science, Major in Health Care Administration (p. 686)
- Bachelor of Science, Major in Health Sciences (p. 691)
- Bachelor of Science, Major in Health Sciences: 3+2 MSAT Option (p. 698)
- Bachelor of Science, Major in Public Health (p. 705)
- Bachelor of Science, Major in Public Health: 4+1 MPH Option (p. 711)
- Minor in Health (p. 719)

Scholarships

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Kinesiology

- Betty Alexander Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- H O Crawford Scholarship or H.O. "Molly" Crawford Memorial Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Joe and Mary Kirk Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Margaret Powell Scholarship Award: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Robert L. Case Health & Kinesiology Wellness Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Sam Houston Athletic Training Alumni & Friends Scholarship: $1,500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Robert J. Wagner Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Human Sciences

- Elmadel Driscoll Robinson Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Family and Consumer Sciences Memorial Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Keener Family COBA/FCS Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Lena Campbell Mathis Endowed Scholarship: $2,500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Lynch Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Mattie Bea Prather Medford Family and Consumer Sciences Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Rachel Mary Prather Allen Family and Consumer Sciences Endowed Scholarship: $500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Wiley G. and Marian Boyd McDonald Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Public Health

- Roy G. Moss, Jr., Health Education Endowed Scholarship: $500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Behrens Family Scholarship in Honor of Dr. William V. Hyman: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

School of Nursing

- Charlie W. & Laverna M. Lucko Memorial Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Ed and Celia Franklin Endowed Scholarship for Nursing: Amount varies (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Marjorie Milliet Eglsaer Nursing Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Mary Ellen Ragsdale Nursing Scholarship: $5,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Roland E. Black Nursing Scholarship: $3,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- St. Luke's The Woodlands Hospital Nursing Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Stewart-Jones Nursing Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Sue Walker Rogers Nursing Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Nurseify Excellence in Nursing Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Human Sciences

Department Chair: Dr. Keila Tyner (keilatyner@shsu.edu), Interim Chair, Associate Professor of Practice, Fashion Merchandising Program Coordinator

Contact Information:
Human Sciences (https://www.shsu.edu/academics/health-sciences/human-sciences/)
(936) 294-1250
Box 2177 SHSU
1700 University Ave.
Huntsville, TX 77341-2177

Website: Department of Human Sciences (https://www.shsu.edu/academics/health-sciences/human-sciences/)

Mission

The mission of the Department of Human Sciences is to prepare future professionals with the knowledge and skills to positively impact individuals, families, and communities.

Highlights

- Food Science and Nutrition Program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics
- Dietetic Internship Program available for qualified FSCN graduates (leads to RDN credential)
- Interior Design Program accredited by the Council for Interior Design Accreditation (CIDA) and the National Association of Schools of Art and Design (NASAD)
- Kappa Omicron Nu Honor Society for Human Sciences (Kappa Alpha Phi Chapter)

Suggested Minors

The majority of degree programs in the Department of Human Sciences **do not** require a minor. However, a minor may be elected for any program, in keeping with student career goals. Students graduating with a degree in the DPD program (Food Science and Nutrition) have minored in Chemistry, Mass Communication, Psychology, and other areas. Interior Design majors often minor in Architectural Design Technology, Construction Management, Graphic Design, or General Business Administration. Students majoring in Fashion Merchandising are **required** to have a minor in either General Business Administration, Management, Marketing, Supply Chain Management, Entrepreneurship, or Finance.

Program Specific Requirements

Most degree programs within the Department of Human Sciences require completion of HUSC 4369. Students have multiple opportunities to learn about degree requirements through the admission and advising process, including Saturdays@Sam (one each fall and spring semester), SAM Center advising, advising within the department, and advising through career fairs sponsored by Career Services at SHSU.

- Bachelor of Arts, Major in Interior Design (p. 626)
- Bachelor of Science, Major in Fashion Merchandising (p. 630)
- Bachelor of Science, Major in Food Science and Nutrition (p. 633)
- Bachelor of Science, Major in Interior Design (p. 637)
- Minor in Fashion Merchandising (p. 641)
- Minor in Human Nutrition (p. 642)
- Minor in Interior Design (p. 643)

Career Opportunities

For the following program areas, employment opportunities include, but are not limited to, the following career options:

- Fashion Merchandising (p. 630)
  - fashion brand management
  - retail buying
  - retail planning and allocation
  - retail management
  - visual merchandising

    - fashion marketing
    - social media strategy and marketing
    - wholesale representative
    - showroom management
    - apparel supply chain and logistics
    - trend forecasting
    - fashion brand promotion and special events
- Food Science and Nutrition (p. 633)
    - Registered Dietitian (with required post-graduate internship and Master's (M.S.) degree)
        - clinical settings
        - wellness coach/programs
        - community organizations
        - administrative positions
        - public health agencies
        - corporate in food manufacturing, food distribution, other
        - spokesperson for food councils (wheat, rice, beef, etc.)
        - non-profit community nutrition programs (USDA, WIC)
        - food service/nutrition director for hospitals, schools
        - nutritional consultant to sports teams, gyms, corporate executives, food companies, cruise lines, spas, and retail food stores
        - food scientist
        - sports nutritionist
        - food stylist
- Interior Design (p. 637)
    - Registered Interior Designer (with the passing of a professional licensure exam, NCIDQ, and state registration)
        - residential designer (single-family homes, multi-family housing, retail home furnishings and products)
        - commercial designer (workplace, healthcare/wellness, hospitality, retail, restaurants, education, mixed-use)
        - lighting designer
        - kitchen and bath designer
        - space planner
        - CAD/Revit manager
        - architecture and design (A&D) sales representative

Students have multiple opportunities to learn about careers associated with their degree programs, including Saturdays@Sam (one each fall and spring semester), SAM Center advising, advising within SHSU Career Services, the department, career fairs sponsored by the Career Success Center, and guest speakers and field trips sponsored through classes and pre-professional student organizations.

Upon completion of a bachelor's degree, qualified students may choose to apply for admission to one of the Graduate programs in Human Sciences. Refer to the Graduate Catalog *(*http://www.shsu.edu/home/catalog.html*)* for more details.

Scholarships

Competitive scholarships and awards are given annually to full-time students of at least junior standing majoring in one of the program areas in Human Sciences. **(Award recipients must be enrolled at Sam Houston State University for a minimum of one semester as a full-time student, must have completed 12 hours in Human Sciences, and must be following the curriculum of a program major within the Department of Human Sciences with full-time student status.)**

Scholarships

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Human Sciences

- Elmadel Driscoll Robinson Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Family and Consumer Sciences Memorial Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Keener Family COBA/FCS Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Lena Campbell Mathis Endowed Scholarship: $2,500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Lynch Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Mattie Bea Prather Medford Family and Consumer Sciences Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Rachel Mary Prather Allen Family and Consumer Sciences Endowed Scholarship: $500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Wiley G. and Marian Boyd McDonald Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Many other scholarship opportunities are available, including those based on the academic record of the incoming student. Many organizations at the national, state, and local level, including professional organizations and corporations, offer scholarships for specific majors within the department. Students should check the specific criteria required by these organizations. Brochures and information concerning the department and scholarships may be obtained by writing:

Department of Human Sciences
Box 2177
Sam Houston State University
Huntsville, Texas 77341-2177

or e-mail your request to Human Sciences (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/). Website: Department of Human Sciences (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/)

Student Organizations

- American Society of Interior Designers-ASID (student chapter)
- International Interior Design Association-IIDA (student chapter)
- Kappa Omicron Nu, Kappa Alpha Phi Chapter (honor society for Human Sciences)
- Sam Houston Student Dietetic Association
- National Retail Federation-NRF (student chapter), Fashion Merchandising
- Internships and Study Abroad

All students who complete programs in Fashion Merchandising and Interior Design must complete a supervised internship (HUSC 4369) of at least 200 supervised clock hours as a requirement for graduation. Students are given leads for securing internship opportunities, but part of the internship experience is securing a suitable position.

Students majoring in Food Science and Nutrition are required to complete a number of shadowing hours in several junior- and senior-level courses to complete the knowledge requirements of The Academy of Nutrition and Dietetics (i.e.,FSCN 3445, FSCN 4360, and FSCN 4361).

Berna El Rahi Abed el Sater, PHD (bxa051@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, University of Montreal; MS, American University of Beirut; BS, Notre Dame University

Deneisha Alice Branch, MBA (deneishabranch@shsu.edu), *Lecturer of Human Sciences*, *Department of Human Sciences*, MBA, American Intercontinental Univ; BFA, American Intercontinental Univ

Laura Keilers Burleson, PHD (hec_lpb@shsu.edu), *Assistant Professor of Interior Design*, *Department of Human Sciences*, PHD, Texas Tech University; MS, Oklahoma State University; BS, Oklahoma State University

Linda Gail Fergus, PHD (lgf011@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, LSU & A&M College; MS, Texas Woman's University; BS, LSU & A&M College

Megan Rebecca Garcia, BS (mrf046@shsu.edu), *Assistant Professor of Practice of Interior Design*, *Department of Human Sciences*, BS, Texas State Univ-San Marcos

Cherine Hatem, PHD (cxh164@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Case Western Reserve Univ; BS, John Carroll University

Ernesto Molinar Hernandez, PHD (emh060@shsu.edu), *Lecturer of Food Science & Nutrition*, *Department of Human Sciences*, PHD, Univ of Massachusetts-Amherst; MS, Oregon State University; BS, University of Guanajuato

Domenique Elizabeth Jones, PHD (dej016@shsu.edu), *Lecturer of Human Sciences*, *Department of Human Sciences*, PHD, Univ of Tennessee-Knoxville; MS, Univ of North Texas; BS, Univ of North Texas

Tabbetha Dawn Lopez, PHD (tdl030@shsu.edu), *Assistant Professor of Food Science & Nutrition and Dietetics Director*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Texas Tech University; BS, Univ of Houston-Main; BS, Univ of Houston-Main

Sahar Mihandoust, PHD (sxm320@shsu.edu), *Lecturer of Interior Design*, *Department of Human Sciences*, PHD, Texas Tech University; MA, Rensselaer Poly Inst; MA, Islamic Azad University; BA, Islamic Azad University

Keila E Tyner, PHD (kxt033@shsu.edu), *Associate Professor of Practice in Fashion Merchandising*, *Department of Human Sciences*, PHD, Iowa State University; MS, Colorado State University; BS, Texas Christian University

Heather Jean Wall, BARCH (hwall@shsu.edu), *Assistant Professor of Practice of Interior Design*, *Department of Human Sciences*, BARCH, Univ of Southern California

Bachelor of Arts, Major in Interior Design

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-interior-design/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Interior Design		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [1]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
Foreign Language: WOLC 1411, WOLC 1412 (same field)		8
COMS 3370	Intercultural Communication	3
or ETSM 4335	Human Factors & Ergonomics	
KINE 2115	Lifetime Health and Wellness [3]	1
PHIL 2303	Critical Thinking [2]	3
WOLC 2311	Intermediate Foreign Language [1]	3
Major: Foundation		
ARTS 1316	Drawing	3
INDS 1140	Introduction to Interior Design	1
INDS 1360	Applied Design Theory	3
Major: Required		
HUSC 4369	Internship	3
INDS 2361	History of Furnishings I	3
INDS 2364	Materials and Sources	3
INDS 2365	Digital Drawing for Interior Design	3
INDS 2386	Studio I: Space Planning	3
INDS 2387	Architectural Graphics for Interiors	3
INDS 2388	Building Systems for Interiors	3
INDS 3332	Lighting Design for Interiors	3
INDS 3337	Studio III: Design Process	3
INDS 3338	Studio II: Residential Design	3
INDS 3360	Interior Design Profession Practice & Procedure	3
INDS 3361	History of Furnishings II	3
INDS 3365	Digital Drawing for Interior Design II	3
INDS 3377	Interior Codes & Standards	3
INDS 4330	Studio IV: Commercial Design I	3
INDS 4331	Studio V: Commercial Design II	3
Major: Prescribed Electives		
ARTS 3385	Art History Survey II	3
ARTS 4384	Modern Art Before 1945	3
or ARTS 4385	Art Since 1945	
or ARTS 3383	Design History	
ETCM 3372	Construction Drafting [4]	3
ETDD 2363	Architectural Design	3
Electives: General		

Minor: Not Required [5,6]	
Total Hours	**120**

1. Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). Options include ARAB 2311, FREN 2311, GERM 2311, SGNL 2311, and SPAN 2311.
2. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).
3. Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4. ETCM department waives prerequisites for Interior Design majors.
5. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.
6. All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

A minimum grade of C is required of Interior Design majors in all ARTS, ETCM, and INDS courses and in all prerequisites for these courses. This program requires a 2.5 GPA.

The Interior Design specific courses (INDS designation) are only offered once per academic year, in either Fall or Spring, as noted in the plan of study with the exception of INDS 1360.

INDS 1140 is a prerequisite for INDS 1360.

INDS 1360 is a prerequisite for INDS 2386.

INDS 2364, INDS 2386, and INDS 2387 should be taken concurrently.

INDS 1360 or INDS 2364 is a prerequisite for ETDD 2363.

INDS 2365, INDS 2388, ETDD 2363, and ARTS 1316 are prerequisites for INDS 3338.

ARTS 3385 is a prerequisite for ARTS 3383, ARTS 4384, and ARTS 4385.

A passing sophomore portfolio review is required along with departmental approval prior to taking INDS 3338.

HUSC 4369 requires departmental approval and the completion of 90 hours.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-interior-design/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
ARTS 1316	3	Component Area II (p. 89)	3
ENGL 1301[1]	3	ENGL 1302[1]	3
HSTY 1301[2]	3	HSTY 1302[2]	3
INDS 1140	1	INDS 1360	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	Component Area V (p. 90)	3
INDS 2364	3	ETDD 2363	3
INDS 2386	3	INDS 2361	3
INDS 2387	3	INDS 2365	3
KINE 2115[3]	1	INDS 2388	3

PHIL 2303[4]		3	
		16	**15**

Third Year

Fall	Hours	Spring	Hours
INDS 3332		3 ARTS 3385	3
INDS 3338		3 INDS 3337	3
INDS 3361		3 INDS 3360	3
INDS 3377		3 INDS 3365	3
POLS 2305[5]		3 WOLC 1411 (same field)	4
		15	**16**

Fourth Year

Fall	Hours	Spring	Hours
ARTS 4384, 4385, or 3383		3 INDS 4331	3
COMS 3370 or ETSM 4335		3 HUSC 4369	3
ETCM 3372[6]		3 POLS 2306[5]	3
INDS 4330		3 WOLC 2311[7]	3
WOLC 1412 (same field)		4	
		16	**12**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 ETCM department waives prerequisites for Interior Design majors.
7 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). Options include ARAB 2311, FREN 2311, GERM 2311, SGNL 2311, and SPAN 2311.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

A minimum grade of C is required of Interior Design majors in all ARTS, ETCM, and INDS courses and in all prerequisites for these courses. This program requires a 2.5 GPA.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Interior Design specific courses (INDS designation) are only offered once per academic year, in either Fall or Spring, as noted in the plan of study with the exception of INDS 1360.

INDS 1140 is a prerequisite for INDS 1360.

INDS 1360 is a prerequisite for INDS 2386.

INDS 2364, INDS 2386, and INDS 2387 should be taken concurrently.

INDS 1360 or INDS 2364 is a prerequisite for ETCM 2363.

INDS 2365, INDS 2388, ETDD 2363, and ARTS 1316 are prerequisites for INDS 3338.

ARTS 3385 is a prerequisite for ARTS 3383, ARTS 4384, and ARTS 4385.

A passing sophomore portfolio review is required along with departmental approval prior to taking INDS 3338.

HUSC 4369 requires departmental approval and the completion of 90 hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Interior Design is designed to provide graduates with the following marketable skills:

- Oral and written communication.
- Technical interior design knowledge.
- Manual and digital drawing.
- Critical thinking and problem solving.
- Application of evidence-based design.

Bachelor of Science, Major in Fashion Merchandising

The Bachelor of Science degree in Fashion Merchandising is an online degree program. FAMD courses are offered in the **7 ½ week schedule (7A/7B)** in the fall and spring semesters. Courses will also be offered in the summer.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-fashion-merchandising/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Fashion Merchandising		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
Additional Social or Behavioral Science (6 hours)		6
BUAD 3345	Entrepreneurship I - Startup	3
KINE 2115	Lifetime Health and Wellness [2]	1
PHIL 2303	Critical Thinking [1]	3
Major: Foundation		
FAMD 1332	Introduction to Fashion Merchandising	3
FAMD 1369	Introduction to Textiles	3
FAMD 2333	Fashion Merchandising Technology	3
FAMD 2366	Fashion in Society	3
FAMD 2375	Fashion Promotion	3
FAMD 3325	Digital Fashion Retailing [3]	3
FAMD 3348	Buying I Merchandise Control	3
FAMD 3368	Fashion Forecasting	3
FAMD 3371	Fashion Merchandising Management	3
FAMD 3375	Fashion Brand Management	3
FAMD 4329	Global Issues in Fashion	3
FAMD 4348	Buying II: Planning & Allocation	3
FAMD 4359	Fashion Innovation and Creativity	3
FAMD 4367	Seminar in Clothing, Textiles, and Merchandising	3
HUSC 4369	Internship [4]	3
Electives: Advanced		
Advanced Electives		3
Minor: Required [5]		
Minor		21
Total Hours		**120**

1. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) as well as the major.
2. Satisfies 1 credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
3. FAMD 3325 is a summer-only course.
4. HUSC 4369 requires department approval, 90 hours of course work completed, and FAMD prerequisites FAMD 3348 and FAMD 3371.
5. A minor is required. Choose from General Business Administration, Management, Marketing, Supply Chain Management, Entrepreneurship, or Finance.

Notes:

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Fashion Merchandising specific courses (FAMD designation) are only offered once per academic year, in either Fall, Spring, or Summer, as noted in the plan of study.

HUSC 4369 (https://catalog.shsu.edu/search/?P=HUSC%204369) requires departmental approval, the completion of 90 hours, and prerequisites FAMD 3348 and FAMD 3371.

FAMD 1332 and FAMD 2333 can be taken in the same semester.

FAMD 2375 and FAMD 3375 can be taken in the same semester.

FAMD 3348 and FAMD 4348 can be taken in the same semester.

Fashion Merchandising students who are pursuing a General Business Administration, Management, Marketing, Supply Chain Management, Entrepreneurship, or Finance minor are strongly encouraged to take MGMT 3327 as one of their approved electives.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-fashion-merchandising/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	ENGL 1302[1]	3
ENGL 1301[1]	3	FAMD 1369	3
FAMD 1332	3	HSTY 1302[2]	3
HSTY 1301[2]	3	KINE 2115[3]	1
	16		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)	3
FAMD 2333	3	FAMD 2375	3
FAMD 2366	3	PHIL 2303[6]	3
POLS 2305[4]	3	POLS 2306[4]	3
Minor [5]	3	Additional Social and Behavioral Sciences	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area V (p. 90)	3	BUAD 3345	3	FAMD 3325[7]	3
FAMD 3348	3	FAMD 3368	3		
FAMD 3371	3	FAMD 3375	3		
Minor [5]	6	Additional Social and Behavioral Sciences	3		
		Minor [5]	3		
	15		**15**		**3**

Fourth Year

Fall	Hours	Spring	Hours
FAMD 4348		3 FAMD 4329	3
FAMD 4367		3 FAMD 4359	3
Minor [5]		6 Advanced Electives	3
		HUSC 4369[8]	3
		Minor [5]	3
	12		**15**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies 1 credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 A minor is required. Choose from General Business Administration, Management, Marketing, Supply Chain Management, Entrepreneurship, or Finance.
6 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) as well as the major.
7 FAMD 3325 is a summer only course.
8 HUSC 4369 requires department approval, 90 hours of course work completed, and FAMD prerequisites FAMD 3348 and FAMD 3371.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Fashion Merchandising specific courses (FAMD designation) are only offered once per academic year, in either Fall, Spring, or Summer, as noted in the plan of study.

HUSC 4369 (https://catalog.shsu.edu/search/?P=HUSC%204369) requires departmental approval, the completion of 90 hours, and FAMD prerequisites FAMD 3348 and FAMD 3371

FAMD 1332 and FAMD 2333 can be taken in the same semester.

FAMD 2375 and FAMD 3375 can be taken in the same semester.

FAMD 3348 and FAMD 4348 can be taken in the same semester.

Fashion Merchandising students who are pursuing a General Business Administration, Management, Marketing, Supply Chain Management, Entrepreneurship, or Finance minor are strongly encouraged to take MGMT 3327 as one of their approved electives.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Fashion Merchandising is designed to provide graduates with the following marketable skills:

- Critical thinking and problem solving within the scope of the fashion industry in order to objectively examine information to determine the most effective way to move forward in this fast-paced and globalized industry.
- Collaboration and teamwork in order to communicate well with others and understand varying perspectives to enable them to come up with efficient and effective creative solutions.
- Knowledge and understanding of merchandising functions to successfully construct the necessary data for various financially-related merchandise planning and development needs.
- A balance of creative & artistic skills and business acumen to develop an inherent sense of understanding the intricacies of the fashion industry.

Bachelor of Science, Major in Food Science and Nutrition

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-food-science-and-nutrition/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Food Science and Nutrition		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 5]	4
BIOL 2404	Human Anatomy & Physiology II [5]	4
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II	4
COMS 3385	Community Applied Communication	3
KINE 2115	Lifetime Health and Wellness [4]	1
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1370	Introduction to Biomedical Statistics [6]	3
PSYC 3374	Development Psychology	3
Major: Foundation		
FSCN 1441	Food Preparation And Selection	4
FSCN 2362	Nutrition	3
FSCN 3329	Nutrition through the Lifespan	3
FSCN 3330	Professionalism in Dietetics	3
FSCN 3339	Community Nutrition	3
FSCN 3445	Quantity Food Purchasing, Preparation, & Service	4
FSCN 3367	Food Science	3
FSCN 3370	Nutritional Pathways	3
FSCN 3380	Advanced Nutrition	3
FSCN 4360	Clinical Dietetics I	3
FSCN 4361	Clinical Dietetics II	3
FSCN 4370	Advanced Food Service Organization and Management	3
FSCN 4371	Nutrition Assessment	3
FSCN 4372	Nutrition Counseling and Education	3
FSCN 4373	Cultural Food Practices	3
FSCN 4374	Research in Nutrition Science	3
Major: Prescribed Electives		
BIOL 2420	Introduction to Applied Microbiology	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
MGMT 3310	Principles Of Management	3
PSYC 1301	Introduction To Psychology [3]	3
Minor: Not Required [7,8]		
Total Hours		**120**

1 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies 4 hours of the Core Curriculum requirement for Component Area III (Life and Physical Sciences).
3 Satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Satisfies the Core Curriculum requirement for one hour of Component Area IX (Component Area Option).
5 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
6 MATH 1342 will be accepted if transferred in from another institution or major.
7 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
8 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

A minimum grade of "C" is required for Food Science and Nutrition majors in all FSCN coursework.

100% completion of all Knowledge for Registered Dietetic Nutritionist (KRDNs) learning outcomes must be met from ACEND.

FSCN 2362 requires 3 hours of BIOL or CHEM and 3 hours of MATH.

FSCN 1441 OR FSMG 2441 is a prerequisite for FSCN 3445.

FSCN 3367 requires the completion of 4 hours of Chemistry, FSCN 1441 and FSCN 2362.

BIOL 2420 requires a "C" or higher in BIOL 2403, BIOL 2404 and in CHEM 1406 or CHEM 1411. This course will satisfy 4 hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

MGMT 3310 requires 50 hours of course work completed.

The estimated cost of completing the FSCN Program, including tuition and fees, books, lab coat, and SHSDA dues is $37,139. (Cost of tuition, fees and textbooks is subject to change without notice).

The program requires transfer and change of major students to have a minimum GPA of 2.75 prior to declaring FSCN as a major and submitting a degree plan.

To be eligible to receive an *ACEND Verification Statement of DPD Program Completion*, students in the FSCN/DPD program at Sam Houston State University must have a minimum GPA of 2.0 overall, a FSCN GPA of 2.75 or better, and a "C" or better in all FSCN courses, and 100% achievement of Knowledge requirements for Registered Dietitians/Nutritionist (KRDNs) from ACEND. Upper-level courses must have been completed in the previous 5 years. The DPD Director will issue the *Verification Statement* once the FSCN degree has been conferred on the student's academic transcript (usually one month after the end of the semester). An official copy of the *Verification Statement* is required to begin an ACEND-accredited dietetic internship. Receipt of the *Verification Statement* does not guarantee an ACEND-accredited dietetic internship. Students who do not meet the requirements for a *Verification Statement* but satisfy graduation requirements will graduate with a Bachelor of Science in Food Science and Nutrition. Sam Houston State University does not guarantee dietetic internship placement or selection.

The Didactic Program in Dietetics (DPD) is currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics.

120 South Riverside Plaza
Suite 2000
Chicago, IL 60606-6995
1-800-877-1600, ext. 5400
Website: Eat Right (https://www.eatrightpro.org/acend/)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-food-science-and-nutrition/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 2403[1,2]		4 BIOL 2404[2]	4
ENGL 1301[3]		3 CHEM 1411[1]	4
HSTY 1301[4]		3 ENGL 1302[3]	3
KINE 2115[5]		1 HSTY 1302[4]	3
MATH 1314[6]		3 MATH 1370[7]	3
		14	**17**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 BIOL 2420	4
CHEM 1412		4 CHEM 2123	1
FSCN 1441		4 CHEM 2323	3
POLS 2305[8]		3 FSCN 2362	3
PSYC 1301[9]		3 POLS 2306[8]	3
		17	**14**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)		3 Component Area V (p. 90)	3
FSCN 3329		3 FSCN 3339	3
FSCN 3330		3 FSCN 3367	3
FSCN 3445		4 FSCN 3380	3
FSCN 3370		3 FSCN 4371	3
		16	**15**

Fourth Year

Fall	Hours	Spring	Hours
FSCN 4360		3 COMS 3385	3
FSCN 4373		3 FSCN 4361	3
MGMT 3310		3 FSCN 4370	3
PSYC 3374		3 FSCN 4372	3
		FSCN 4374	3
		12	**15**

Total Hours: 120

1. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Sciences).
2. BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
3. Satisfies Core Curriculum requirement for Component Area I (Communications).
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
6. Satisfies Core Curriculum requirement for Component Area II (Mathematics).
7. MATH 1342 will be accepted if transferred in from another institution or major.
8. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
9. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

A minimum grade of "C" is required for Food Science and Nutrition majors in all FSCN coursework.

100% completion of all Knowledge for Registered Dietician Nutritionists (KRDNs) learning outcomes must be met from ACEND.

FSCN 2362 requires 3 hours of BIOL or CHEM and 3 hours of MATH.

FSCN 1441 OR FSMG 2441 is a prerequisite for FSCN 3445.

FSCN 3367 requires the completion of 4 hours of Chemistry, FSCN 1441 and FSCN 2362.

BIOL 2420 requires a "C" or higher in BIOL 2403, BIOL 2404, and in CHEM 1406 or CHEM 1411. This course will satisfy 4 hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

MGMT 3310 requires 50 hours of course work completed.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The estimated cost of completing the FSCN Program, including tuition and fees, books, lab coat, and SHSDA dues is $37,139. (Cost of tuition, fees and textbooks is subject to change without notice).

The program requires transfer and change of major students to have a minimum GPA of 2.75 prior to declaring FSCN as a major and submitting a degree plan.

To be eligible to receive an *ACEND Verification Statement of DPD Program Completion*, students in the FSCN/DPD program at Sam Houston State University must have a minimum GPA of 2.00 overall, a FSCN major coursework GPA of 2.75 or better, and a "C" or better in all FSCN courses, and 100% achievement of Knowledge requirements for Registered Dietitian Nutritionists (KRDNs) from ACEND. Upper-level courses must have been completed in the previous 5 years. The DPD Director will issue the *Verification Statement* once the FSCN degree has been conferred on the student's academic transcript (usually one month after the end of the semester). An official copy of the *Verification Statement* is required to begin an ACEND-accredited dietetic internship. Receipt of the *Verification Statement* does not guarantee an ACEND-accredited dietetic internship. Students who do not meet the grade point requirement for a *Verification Statement* but satisfy graduation requirements will graduate with a Bachelor of Science in Food Science and Nutrition. Sam Houston State University does not guarantee dietetic internship placement or selection.

The Didactic Program in Dietetics (DPD) is currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics.

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Suite 2000
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1-800-877-1600, ext. 5400
Website: Eat Right (https://www.eatrightpro.org/acend/)

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Food Science and Nutrition is designed to provide graduates with the following marketable skills:

- Demonstrate skills in performing nutrition assessments (individual and group) and assessment for the life cycle.
- Ability to apply food science product manipulation and development.
- Knowledge in and ability to perform culinary medicine food demonstration.
- Demonstrate basic understanding of nutritional quality assessment of individuals and populations utilizing computer software.
- Awareness of food and inventory management.

Bachelor of Science, Major in Interior Design

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-interior-design/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Interior Design		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
COMS 3370	Intercultural Communication	3
or ETSM 4335	Human Factors & Ergonomics	
KINE 2115	Lifetime Health and Wellness [2]	1
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1332	College Mathematics	
or MATH 1342	Elementary Statistics	
Select two additional Social and Behavioral Sciences		6
COMS 2386	Interpersonal Communication	
PHIL 2303	Critical Thinking	
PSYC 1301	Introduction To Psychology	
SOCI 1301	Introduction to Sociology	
Major: Foundation		
ARTS 1316	Drawing	3
INDS 1140	Introduction to Interior Design	1
INDS 1360	Applied Design Theory	3
Major: Required		
HUSC 4369	Internship	3
INDS 2361	History of Furnishings I	3
INDS 2364	Materials and Sources	3
INDS 2365	Digital Drawing for Interior Design	3
INDS 2386	Studio I: Space Planning	3
INDS 2387	Architectural Graphics for Interiors	3
INDS 2388	Building Systems for Interiors	3
INDS 3332	Lighting Design for Interiors	3
INDS 3337	Studio III: Design Process	3
INDS 3338	Studio II: Residential Design	3
INDS 3360	Interior Design Profession Practice & Procedure	3
INDS 3361	History of Furnishings II	3
INDS 3365	Digital Drawing for Interior Design II	3
INDS 3377	Interior Codes & Standards	3
INDS 4330	Studio IV: Commercial Design I	3
INDS 4331	Studio V: Commercial Design II	3
Major: Prescribed Electives		
ARTS 3385	Art History Survey II	3

ARTS 4384	Modern Art Before 1945	3
or ARTS 4385	Art Since 1945	
or ARTS 3383	Design History	
ETCM 3372	Construction Drafting [3]	3
ETDD 2363	Architectural Design	3
Electives: General		
General Electives		2
Minor: Not Required [4,5]		
Total Hours		**120**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
3 ETCM department waives prerequisites for Interior Design majors.
4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

A minimum grade of "C" is required for Interior Design majors in all ARTS, ETCM, and INDS courses and in the prerequisites for these courses. The program requires a 2.5 GPA.

The Interior Design specific courses (INDS designation) are only offered once per academic year, in either Fall or Spring, as noted in the plan of study.

INDS 1140 is a prerequisite for INDS 1360.

INDS 1360 is a prerequisite for INDS 2386.

INDS 2364 , INDS 2386, and INDS 2387 should be taken concurrently.

INDS 1360 or INDS 2364 is a prerequisite for ETDD 2363.

ARTS 1316, ETDD 2363, and INDS 2365 and INDS 2388 are prerequisites for INDS 3338.

ARTS 3385 is a prerequisite for ARTS 3383, ARTS 4384, or ARTS 4385.

A passing sophomore portfolio review is required along with departmental approval prior to taking INDS 3338.

HUSC 4369 requires departmental approval and 90 hours of course work completed.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-interior-design/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
ARTS 1316		3 Component Area VIII (p. 90)	3
ENGL 1301[1]		3 ENGL 1302[1]	3
HSTY 1301[2]		3 HSTY 1302[2]	3
INDS 1140		1 INDS 1360	3
MATH 1314, 1324, 1332, or 1342[3]		3	
		17	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 ETDD 2363	3
INDS 2364		3 INDS 2361	3
INDS 2386		3 INDS 2365	3
INDS 2387		3 INDS 2388	3
KINE 2115[4]		1 POLS 2306[5]	3
POLS 2305[5]		3	
	16		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 ARTS 3385	3
INDS 3332		3 INDS 3337	3
INDS 3338		3 INDS 3360	3
INDS 3361		3 INDS 3365	3
INDS 3377		3 PHIL 2303, COMS 2386, PSYC 1301, or SOCI 1301	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
ARTS 4384, 4385, or 3383		3 Component Area IX (p. 91)	3
COMS 3370 or ETSM 4335		3 HUSC 4369	3
ETCM 3372[6]		3 INDS 4331	3
INDS 4330		3 PHIL 2303, COMS 2386, PSYC 1301, or SOCI 1301	3
General Electives		2	
	14		**12**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
4 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 ETCM department waives prerequisites for Interior Design majors.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

A minimum grade of "C" is required for Interior Design majors in all ARTS, ETCM, and INDS courses and in the prerequisites for these courses. The program requires a 2.5 GPA.

The Interior Design specific courses (INDS designation) are only offered once per academic year, in either Fall or Spring, as noted in the plan of study.

INDS 1140 is a prerequisite for INDS 1360.

INDS 1360 is a prerequisite for INDS 2386.

INDS 2364, INDS 2386, and INDS 2387 should be taken concurrently.

INDS 1360 or INDS 2364 is a prerequisite for ETDD 2363.

ARTS 1316, ETDD 2363, and INDS 2365 and INDS 2388 are prerequisites forINDS 3338.

ARTS 3385 is a prerequisite for ARTS 3383, ARTS 4384, or ARTS 4385.

A passing sophomore portfolio review is required along with departmental approval prior to taking INDS 3338.

HUSC 4369 requires departmental approval and 90 hours of course work completed.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Interior Design is designed to provide graduates with the following marketable skills:

- Oral and written communication.
- Technical interior design knowledge.
- Manual and digital drawing.
- Critical thinking and problem solving.
- Application of evidence-based design.

Minor in Fashion Merchandising

The Minor in Fashion Merchandising would be highly beneficial for students with an interest in fashion industry related careers and who chose majors in General Business Administration, Entrepreneurship, International Business, Marketing, Management, Finance, Supply Chain Management, Art, Graphic Design, Theater, Mass Communication, or Communication Studies. The fashion industry is multidisciplinary, and the courses taken in the Fashion Merchandising minor can prepare students for various careers in the industry along with their major area of study including fashion brand management, retail buying, planning and allocation, retail management, visual merchandising, fashion marketing, social media strategy and marketing, wholesale and showroom management, apparel supply chain and logistics, trend forecasting, fashion brand promotions, and costume design.

Code	Title	Hours
Minor in Fashion Merchandising		
Required Courses		
FAMD 1332	Introduction to Fashion Merchandising	3
FAMD 2333	Fashion Merchandising Technology	3
Prescribed Electives		
Select four courses from the following: [1]		12
FAMD 1369	Introduction to Textiles	
FAMD 2366	Fashion in Society	
FAMD 2375	Fashion Promotion	
FAMD 3325	Digital Fashion Retailing	
FAMD 3348	Buying I Merchandise Control	
FAMD 3368	Fashion Forecasting	
FAMD 3371	Fashion Merchandising Management	
FAMD 3375	Fashion Brand Management	
FAMD 4329	Global Issues in Fashion	
FAMD 4348	Buying II: Planning & Allocation	
FAMD 4359	Fashion Innovation and Creativity	
Total Hours		**18**

[1] Nine hours of the Prescribed Electives must be at the 3000-4000 level.

Minor in Human Nutrition

The Human Nutrition minor provides SHSU students who are majoring in Kinesiology, Public Health, Nursing, Psychology, Biology, and other programs with learning opportunities and skills for the nutrition care process, human nutrition, and food science.

Code	Title	Hours
Minor in Human Nutrition		
Required Courses		
FSCN 1441	Food Preparation And Selection	4
FSCN 2362	Nutrition	3
Prescribed Electives		
Select three courses from the following: [1]		9-10
FSCN 3329	Nutrition through the Lifespan	
FSCN 3339	Community Nutrition	
FSCN 3367	Food Science	
FSCN 3370	Nutritional Pathways	
FSCN 3445	Quantity Food Purchasing, Preparation, & Service	
FSCN 4372	Nutrition Counseling and Education	
FSCN 4373	Cultural Food Practices	
Total Hours		**16-17**

[1] Six hours of advanced electives are required.

Minor in Interior Design

The Minor in Interior Design offers the foundations for and an introduction to practical skills in architectural drawing, theory of design, history of furnishings and interiors, and space planning with consideration to how people occupy and inhabit space, movement, and quality of life.

Code	Title	Hours
Minor in Interior Design		
Required Courses		
INDS 1140	Introduction to Interior Design	1
INDS 1360	Applied Design Theory	3
INDS 2364	Materials and Sources	3
INDS 2386	Studio I: Space Planning	3
INDS 2387	Architectural Graphics for Interiors	3
INDS 3361	History of Furnishings II	3
INDS 3377	Interior Codes & Standards	3
Prescribed Electives		
Select one course from the following:		3
INDS 2361	History of Furnishings I	
INDS 2365	Digital Drawing for Interior Design	
INDS 2388	Building Systems for Interiors	
Total Hours		**22**

Notes

Students who complete a Bachelor's degree (B.A. or B.S.) in Interior Design are not eligible for the minor.

Students who choose to move from the Interior Design minor to the Interior Design major must have earned a "C" in all ARTS, ETCM, and INDS coursework; have a minimum 2.5 GPA; and have passed the required sophomore portfolio review.

Department of Kinesiology

Chair: Dr. Jennifer J. Didier (https://www.shsu.edu/academics/health-sciences/kinesiology/kinesiology-faculty-pages/jennifer-didier.html), 936-294-1398

Website: Department of Kinesiology (http://www.shsu.edu/academics/health-sciences/kinesiology/)

Mission

The mission of the Department of Kinesiology is to advance students' understanding of relationships among movement, exercise, and skill that occur in the contexts of development, learning, rehabilitation, production, training and research. The degree programs in the Department of Kinesiology seek to prepare future professionals for movement-related fields such as athletic training, physical education, sport coaching, sport management, athletic performance coaching and training, sport science, performance sport specialization training, fitness training, researching, medical and equipment sales specific to exercise science, and other careers in the fitness and wellness industries and allied health. Learning occurs through the study of movement, injury prevention, injury rehabilitation, exercise processes, and/or sport industry settings within a framework that emphasizes the clinical and practical implications of theory and research.

Highlights

- Nationally recognized and accredited (CAEP-SHAPE America) teacher certification double major program with the Sport Coaching Certification embedded into the degree program.
- Nationally accredited (CAATE) Masters of Athletic Training 3+2 program allows students to earn two degrees in 5 years (Pursue the BS in Kinesiology - Clinical Exercise Science if interested in this option).
- Our Human Performance and Wellness Management degree (HPWM) is one of NSCA Education Recognition Programs (https://www.nsca.com/education/education-recognition-program-erp/?srsltid=AfmBOooBNihWsEUMnCHJnq4ikk2AeVsRU_Yv5nSmyekDMzAVvYz2ENG-) (ERP). The ERP program recognizes and distinguishes programs with approved and standardized strength and conditioning or personal training curricula. Recognized programs are designed to prepare students for the NSCA-Certified Personal Trainer® (NSCA-CPT®) or NSCA Certified Strength and Conditioning Specialist® (CSCS®) certifications.
- We are an Exercise is Medicine (https://www.acsm.org/) (EIM) On Campus (EIM-OC) recognized university and partner across campus and in the community to promote physical activity.
- Outstanding faculty with experience working in their respective fields related to their academic expertise
- The Department of Kinesiology is now located on the first floor of the Lee Drain Building and has 4 new research labs and 2 teaching labs.
- The research labs include the:
  - Motor Behavior/Biomechanics Lab,
  - Sport and Human Performance Lab,
  - Muscle Physiology/Exercise Biochemistry Lab, and
  - Strength Training Lab.
- The teaching labs include the:
  - Exercise Science Teaching Lab is adjacent to a Wellness Center and seats 24 students with access to bikes, treadmills, plyometrics equipment, etc...
  - Athletic Training Teaching and Research lab includes a simulation room, large teaching spaces for hands-on learning, exam prep rooms, a wet area, and more.
- Courses in the KINE department include:
  - Excellent field-based opportunities through community-engaged courses and internships.
  - Wide variety of laboratory and practical experiences.
  - Extensive professional networks in many different sub-fields in Kinesiology.
  - Online courses are available for many of the courses.
  - Quality instructors, many of whom have been awarded for their teaching excellence.
  - Outstanding faculty and staff with extensive experience in their professional fields.
- *Newly added* Minor in Sport Coaching

SHSU Graduate School Opportunities in Related Disciplines

College of Health Sciences (p. 1611)

- Master of Science in Athletic Training (MSAT) (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)
- Master of Science (MS) in Kinesiology - Sport and Human Performance (SHP) (p. 1620)

- Master of Science (MS) in Sport Management (p. 1624)
- Master of Public Health (MPH) (https://www.shsu.edu/academics/health-sciences/health/graduate/master-of-public-health/)

College of Osteopathic Medicine (p. 1713)

- Doctorate in Osteopathic Medicine (https://www.shsu.edu/academics/osteopathic-medicine/) (DO)

Additional graduate program opportunities outside of SHSU may include Masters or Doctorate in Occupational Therapy, Masters in Orthotics and Prosthetics, Doctorate in Physical Therapy, Doctorate in Osteopathic Medicine, Doctorate in Chiropractic Medicine, Doctorate in Pharmacy, Masters is Physician Assistant and many other allied health and exercise science-related areas at other institutions (currently not offered at SHSU).

Suggested Minors and Elective Blocks

- Students in the KINE/EDUC double major will automatically earn the Sport Coaching Certification upon completion of the degree.
- BS in Kinesiology students who choose the minor in Sport Coaching will work with their advisor or faculty mentor with their electives to ensure they meet the 120 credit hour requirement for the degree.
- BS in Kinesiology students can choose any content area for a minor (except for KINE).
- Clinical Exercise Science and Human Performance and Wellness Management majors do not have to choose a minor, but can if they are interested in one.
- Elective Hours are in place to allow students to take the courses necessary to meet necessary prerequisites for future schooling or career goals. Work with your career mentor and professors to select the correct electives. Students should ensure that the courses meet professional career goals and/or advanced degree prerequisites for all Prescribed Electives. Research and review professional schools of interest and the FAQ sections of ATCAS, PTCAS, OTCAS, and OPCAS, and specific program requirements and university websites, based on your professional goals. Examples of typical elective courses for those interested in the following graduate degree fields include: (*note nursing is the only undergraduate degree program listed below)
  - (**a**) **Nursing***: BIOL 2420 and PSYC 3374 are prerequisites.
  - (**b**) **Athletic Training**: students should select the Clinical Exercise Science (CES) 3+2 degree track; elective SCH will be taken at the graduate level in the MSAT program, refer to the catalog (https://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext) for specific pre-requisites.
  - (**c**) **Physical Therapy**: PHYS 1302, PHYS 1102, PSYC 3374, CHEM 1412, BIOL 1407;
  - (**d**) **Occupational Therapy** (OT): KINE 3367, PSYC 3331 , PSYC 3333, PSYC 3374, SOCI 1301
  - (**e**) **Prosthetics and Orthotics**: ATTR 4369, KINE 4117 or KINE 4392, KINE 5387
  - **(f) Physician Assistant:** CHEM 2323 CHEM 2123, BIOL 2420, BIOL 2440, BIOL 3450, all science courses must be 'for science majors'.
  - **(g) Chiropractic**: ATTR 4369, KINE 4314, and KINE 5387.
  - (**h**) **Medical School** (DO): PHYS 1302, PHYS 1102, CHEM 2323 and CHEM 2123, CHEM 2325 and CHEM 2125 or CHEM 3438.
  - (**i**) **Pharmacy**: PHYS 1302, PHYS 1102, CHEM 2323 and CHEM 2123, CHEM 2325 and CHEM 2125 or CHEM 3438.
  - Some programs may also need 1-3 hours of medical terminology.
  - Other suggested electives include: ATTR 4369 & KINE 4369; and KINE 4314. Students wanting to gain research experience can take KINE 4117 and /or KINE 4392.
  - Major electives can be selected from: ATTR, BIOL, CHEM, HLTH, KINE, PHYS, PSYC, & SOCI.

Program Specific Requirements

1. Those seeking Teacher Certification must have a minimum GPA of 2.75 (includes transfer and SHSU hours) and must earn a “C” or better in their Kinesiology and Education courses. Additionally, the degree program is now an Education/Kinesiology (p. 611) double major, with an embedded Sport Coaching Certification (p. 671). Please, visit BS in Education and Kinesiology (p. 611) to learn more about the program.
2. All Kinesiology majors must earn a “C” or better in their ATTR, KINE, and SPMT courses.
3. Sam Houston State University offers three paths for students seeking entrance into the Master of Science in Athletic Training program (http://www.shsu.edu/academics/health-sciences/kinesiology/graduate/athletic-training.html):

   If you are currently enrolled at SHSU in either the BS in Kinesiology with Concentration in Clinical Exercise Science (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-and-msat-athletic-training/#text)or BS in Health Sciences (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/population-health/bs-health-sciences-and-msat-athletic-training/) program, you are eligible to apply to the MSAT upon completion of the prescribed 95-96 credit hours on the associated 3+2 MSAT degree plan:

   In the 3+2 degree options, students must apply to the graduate MSAT program (https://www.shsu.edu/academics/health-sciences/) and be accepted to the MSAT program to complete the dual degree. Students who are not accepted to the MSAT should complete the associated BS degree. Students who complete the MSAT 3+2 dual degrees are awarded both the BS and MSAT degrees upon completion of the 3+2 degree requirements. Applications can be submitted once the prescribed courses and application requirements are completed.

Curriculum

The curriculum integrates the physiological, biomechanical, and psycho-social bases of movement. Students develop their own movement skills, which transition into a focus on movement analysis, physiological function, and skill assessment. Students gain greater depth as they consider problems related to exercise, fitness, and motor skill development within the context of lifestyle and physical activity (i.e. play, games, sport, and other forms of human motor behavior). Students finish the program with strong theoretical and problem-solving skills based on a comprehensive knowledge of movement and exercise science. It is expected that graduates will be able to apply their knowledge and skills to a wide variety of movement-related problems and career possibilities.

- Bachelor of Science, Major in Human Performance and Wellness Management (p. 649)
- Bachelor of Science, Major in Kinesiology (p. 654)
- Bachelor of Science, Double Major in Education and Kinesiology (p. 611) (with embedded Sport Coaching Certificate (p. 671))
- Bachelor of Science, Major in Kinesiology (Clinical Exercise Science) (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/)
- Bachelor of Science, Major in Kinesiology (Clinical Exercise Science), 3+2 MSAT (p. 663)
- Undergraduate Certificate in Sport Coaching (p. 671)
- Minor in Kinesiology (p. 672)
- Minor in Sport Coaching (p. 673)

Career Opportunities

- Corporate fitness specialist
- Commercial fitness specialist
- Performance Sports Specialist
- Sport Scientist
- Biomechanist
- Hospital-based wellness coordinator
- Cardiac rehabilitation specialist
- Physical therapy assistant
- Occupational Therapy assistant
- Chiropractic assistant
- Strength and Conditioning Coach (with completed CSCS certification)
- Medical Sales and Specialty Equipment Sales and Equipment Trainer
- Recreational specialists in camps, communities, and YMCA's
- Personal trainer - with completed certification
- All levels Physical Education Teacher Education Certification - as an Education/Kinesiology double major (p. 611)
- Aids to chiropractors, occupational therapists, and physical therapists
- Collegiate, community, and/or professional sport industry support professionals
- Event management, marketing, and sales positions with professional sport franchises
- Event management and marketing within college athletics
- Program management, marketing, community relations, and event management with community sport organization

SHSU Graduate School Opportunities

- Master of Science in Athletic Training (MSAT)
- Master of Science (MS) in Kinesiology - Sport and Human Performance (SHP)
- Master of Science (MS) in Sport Management
- Doctorate in Osteopathic Medicine (DO)
- Master of Public Health (MPH)
- Doctorate in Physical Therapy (coming soon)
- Masters in Physician Assistant (coming soon)

Additional graduate program opportunities outside of SHSU may include Masters or Doctorate in Occupational Therapy, Masters in Orthotics and Prosthetics, Doctorate in Physical Therapy, Doctorate in Osteopathic Medicine, Doctorate in Chiropractic Medicine, Doctorate in Pharmacy, Masters is Physician Assistant and many other allied health and exercise science-related areas at other institutions (currently not offered at SHSU).

Student Organizations

KHRASH — Kinesiology, Health, & Recreation of Sam Houston (https://shsu.campuslabs.com/engage/organization/khrash/) — Serves to promote opportunities for networking with professionals in sought-after careers in Kinesiology and Health; open to all SHSU students.

ATSO - Athletic Training Student Organization (https://shsu.campuslabs.com/engage/organization/1876/) — Serves to further the education and professional development of Pre-professional and Professional Master in Athletic Training students interested in the field of Athletic Training.

RESTORE - Pre-Physical Therapy and Pre-Occupational Therapy (https://shsu.campuslabs.com/engage/organization/restore/) student organization to help you prepare for the best application as you progress through your undergraduate degree.

Internships

Students completing the Clinical Exercise Science and Human Performance and Wellness Management degree plans complete a 6-semester credit hour (KINE 4394 and KINE 4395), 400-contact hour internship at an approved site(s) that is aligned with their career aspirations under the instruction and supervision of a qualified and experienced professional in the field.

Scholarships

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Kinesiology

- Carolyn Cannata Endowed Scholarship (https://shsu.academicworks.com/opportunities/43236/) $5000
- Betty Alexander Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- H O Crawford Scholarship or H.O. "Molly" Crawford Memorial Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Joe and Mary Kirk Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Margaret Powell Scholarship Award: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Robert L. Case Health & Kinesiology Wellness Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Sam Houston Athletic Training Alumni & Friends Scholarship: $1,500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Robert J. Wagner Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Please, visit SHSU Scholarships (https://www.shsu.edu/dept/financial-aid/scholarships/)for more information on available scholarships for Kinesiology students.

Director/Chair: **Jennifer Johnson Didier**

Harsh Harish Buddhadev, PHD (hhb005@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Iowa State University; MS, Univ of North Texas; BPHIL, Gujarat University

Jennifer Ann Bunn, PHD (jab229@shsu.edu), *Professor of Kinesiology and Associate Dean of COHS*, *Department of Kinesiology*, PHD, Baylor University; MS, Univ of Kentucky; BS, Nicholls State University

Jennifer Johnson Didier, PHD (jennifer.didier@shsu.edu), *Professor of Kinesiology; Chair of Kinesiology*, *Department of Kinesiology*, PHD, LSU & A&M College; MS, Texas A&M University; BS, Texas A&M University

Brent Cullen Estes, PHD (bce001@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Florida State University; MSS, U.S. Sports Academy; BS, Faulkner University

Natalie Reid Foley, MS (nrf026@shsu.edu), *Dir of Development; Adjunct Faculty*, *Department of Kinesiology*, MS, West Virginia University; BS, West Virginia University

Christopher D Greenleaf, PHD (cdg053@shsu.edu), *Clinical Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Rocky Mountain Univ Health Pro; MS, Middle Tennessee State Univ; BS, Charleston Southern University

Mayrena Isamar Hernandez, PHD (mih012@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Wisconsin-Madison; MPH, Kansas State University; BS, Univ of Texas-Arlington

Min Hyun Kim, PHD (mxk056@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of New Mexico; MA, California St Un-San Bernardin; BPED, Kyung Hee Univ Seoul; BPED, Kyung Hee Univ Seoul

Braden Edward Norris, PHD (benorris9@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Indiana University; MS, Indiana University; MS, Indiana University; BS, Indiana University

Caitlin O'Connell, PHD (cmo042@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Pittsburg; BS, Univ of Rochester

Erica Ann Pasquini, PHD (exp043@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Southern Mississippi; MS, Ball State University; BS, Univ of New Orleans

Jose Alberto Santiago, EDD (jas083@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas Southern University; MA, Indiana State University; BA, Univ of Puerto Rico-Rio Piedra

Micheil Brian Spillane, PHD (mbs056@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Baylor University; MSED, Baylor University; BS, Univ of Houston-Main

Matthew Charles Wagner, PHD (mcw002@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Sam Houston State University; BS, Sam Houston State University

Mary Lola Williams, EDD (mlw049@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas A&M-Corpus Christi; MA, Texas A&M-Corpus Christi; BA, Coe College; BA, Coe College; BA, Coe College

Susannah Leigh Williamson, PHD (sxw058@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Teachers College Columbia Univ; BA, Brown University; BA, Brown University

Ryan K Zapalac, PHD (rkz001@shsu.edu), *Professor of Kinesiology and Interim Dean, COHS*, *Department of Kinesiology*, PHD, Univ of Houston-Main; MED, Univ of Houston-Main; BS, Univ of Houston-Main

Bachelor of Science, Major in Human Performance and Wellness Management

The BS in Human Performance and Wellness Management (HPWM) prepares ~~students~~ for careers in corporate, private, and commercial fitness, including strength and conditioning, high-performance athletic coaching, and fitness entrepreneurship. Future job prospects include strength and conditioning coach[1], performance sports specialist, sports scientist, certified personal trainer[1], wellness coordinator, and other fitness specializations. This degree also prepares you to continue into graduate school programs such as a master's or doctorate in Occupational Therapy, master's in Sport and Human Performance, Applied Sport Sciences, and other Kinesiology graduate programs.

This degree is focused on applied settings where you will be working with the general population, such as at a performance center, commercial gym, or recreational facility.

This degree will also allow completion of prerequisites for entry into an occupational therapy doctoral or masters program; however, research your top schools to determine your needed admission requirements (Typical pre-requisites for OT school may include: KINE 3367, PSYC 3331, PSYC 3333, PSYC 3374, SOCI 1301), ~~and~~ you may also need a medical terminology course of 1-3 hours.

This degree is tailored for students interested in Strength and Conditioning coaching, owning their own fitness business (fitness entrepreneurship), or interested in the marketing and management of fitness and wellness. The electives allow you to focus your electives on those classes, specific to your career goals. A minor is not required for this degree but is allowed (additional coursework may be needed).

[1]Certification requires additional external exams and processes, however, the curriculum prepares you to be successful on these exams.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-human-performance-and-wellness-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science in Human Performance and Wellness Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4, 5]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 6]	4
BIOL 2404	Human Anatomy & Physiology II [6]	4
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
COMS 1361	Public Speaking [4]	3
FSCN 2362	Nutrition [7]	3
KINE 1331	Foundations of Kinesiology [8]	3
KINE 2115	Lifetime Health and Wellness [5]	1
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1316	Plane Trigonometry	
MATH 1370	Introduction to Biomedical Statistics [9]	3
or STAT 3379	Statistical Methods in Practice	
PHYS 1105	Classical Physics and Thermodynamics Lab	1
or PHYS 1101	General Physics Laboratory I	
PHYS 1305	Classical Physics and Thermodynamics	3
or PHYS 1301	General Physics-Mechanics and Heat	
PSYC 1301	Introduction To Psychology [3]	3
Major: Foundation		
ATTR 3370	Prevention & Care of Injuries	3

KINE 2114	Weight Training and Physical Conditioning (Major Core)	1
KINE 3173	Exercise Physiology Laboratory	1
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3373	Physiology of Exercise	3
KINE 4314	Advanced Strength Training	3
KINE 4361	Managing Health Promotion in the Workplace	3
or KINE 4365	Directing Wellness Programs	
KINE 4362	Biomechanical Analysis	3
KINE 4373	Advanced Topics in Physiology of Exercise	3
KINE 4377	Principles of Exercise Testing and Prescription	3
KINE 4393	Adult Fitness Management	3
KINE 4394	Internship [10]	3
KINE 4395	Internship II [10]	3
Major: Required (Business Block) [11]		
MGMT 3310	Principles Of Management [11]	3
or MKTG 3310	Principles Of Marketing	
Prescribed Electives (Business Block) Select 9 hours from the following: [11]		**9**
BUAD 3338	Entrepreneurial Law	
BUAD 3345	Entrepreneurship I - Startup	
BUAD 3355	Business Law	
MGMT 3325	New Product Commercialization	
MGMT 3327	Management of Innovation and Technology	
MGMT 3330	Human Resource Management	
MKTG 3320	Consumer Behavior	
MKTG 3328	Professional Selling	
MKTG 3370	Integrated Marketing Communication and Promotional Strategy	
Prescribed Electives: General [12]		**5**
General Electives - ATTR, BUAD, HLTH, KINE, MGMT, MKTG, PSYC, SOCI, or SPMT		
Prescribed Electives: Advanced [12]		**6**
Advanced Electives - ATTR, BUAD, HLTH, KINE, MGMT, MKTG, PSYC, or SPMT		
Minor: Not Required [13,14]		
Total Hours		**120**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and should be taken in your first few semesters. You must earn a C or better.

3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

4 Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

5 Satisfies one semester credit hour of the of Core Curriculum requirement for Component Area IX (Component Area Option).

6 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.

7 FSCN 1367 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details. FSCN 2362 requires 3 credit hours of BIOL/CHEM and 6 credit hours of MATH.

8 KINE 1331 should be taken as a freshman or during first semester. This course is a prerequisite for all upper-level KINE courses. Transfer students can co-enroll in KINE 1331 and upper-level courses with permission. Students interested in the graduate degree in Athletic Training (MSAT) can take ATTR 2300 in place of KINE 1331.

9 Will accept MATH 1342, MATH 3379, or STAT 3379 if transferred in from another institution or major.

10 Students must enroll in KINE 4394 and KINE 4395 for a total of 6 semester credit hours related to the internship. These courses may be taken in sequence across two semesters, or be completed all in one semester. Each class will require 200 hours at an approved internship site(s), for a total of 400 contact hours at the internship site(s).

11 MKTG 3310 has a prerequisite of 50 hours.
MKTG 3310 is a prerequisite for MKTG 3320, MKTG 3370 AND MKTG 3328.
MGMT 3310 is a prerequisite for MGMT 3325, MGMT 3327, AND MGMT 3330.

12 **Electives should match your professional preparation.** Typical pre-requisites for Occupational Therapy (OT) school may include: KINE 3367, PSYC 3331, PSYC 3333, PSYC 3374, SOCI 1301. Additionally, you may need a medical terminology course of 1-3 hours. Other suggested electives for graduate work in Strength Training, Sport and Human Performance, and other Kinesiology degrees include:

KINE 3367, ATTR 4369, KINE 4369, KINE 5387, or upper-level courses in BUAD, MKTG, or MGMT. Students wanting to gain research experience may take KINE 4117 and/or KINE 4392 and work with faculty on an approved project. All but 3 hours of electives will be upper level (3000 or 4000 level) courses in ATTR, BUAD, HLTH, KINE, MGMT, MKTG, PHYS, or PSYC.

13 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

14 The following minor cannot be paired with this degree program: Minor in Kinesiology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All ATTR/KINE majors and/or minors must earn a "C" or better for all ATTR, KINE, and/or SPMT courses.

KINE 1331[1] is a prerequisite for upper-level KINE courses and should be taken as a freshman or during the first semester as a transfer.

[1]Students interested in ATTR graduate MSAT program can take ATTR 2300 or KINE 1331.

BIOL 2404 requires a grade of "C" or higher in BIOL 2403.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence.

MATH 3379 requires 3 credit hours of college math.

KINE 3364 requires KINE 1331 or ATTR 2300, and 45 + credit hours.

KINE 3373 requires 45 credit hours of coursework completed and prerequisites of BIOL 2403 and BIOL 2404, and KINE 1331 or ATTR 2300.

ATTR 3370 requires prerequisites of BIOL 2403, KINE 1331 or ATTR 2300, and 45+ credit hours.

KINE 3362 requires prerequisites of KINE 1331 or ATTR 2300, and BIOL 2403 and 45+ credit hours.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 4373 requires a prerequisite of KINE 3373.

KINE 4377 requires a prerequisite of KINE 3362 and KINE 3373, must earn a "C" or better.

KINE 4362 requires a prerequisite of KINE 3362, PHYS 1305 and PHYS 1105 or PHYS 1301 and PHYS 1101.

KINE 4393 requires a prerequisite of KINE 2114, KINE 2115, ATTR 3370, KINE 3373, KINE 3173, and 75 Credit Hours; students must take KINE 4393 at least one semester prior to their KINE 4394 and KINE 4395 Internship.

KINE 4394 and KINE 4395 require Senior Standing and completion of KINE 4393 and KINE 4377, must earn a "C" or better.

KINE 4314 requires a prerequisite of KINE 2114, KINE 2115, KINE 3362, and KINE 3373.

MKTG 3310 has a prerequisite of 50 hours.

MGMT 3310 requires 45 credit hours of coursework completed.

MKTG 3310 is a prerequisite for MKTG 3320, MKTG 3370, and MKTG 3328.

MGMT 3310 is a prerequisite for MGMT 3325, MGMT 3327, and MGMT 3330.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-human-performance-and-wellness-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 2403[1, 2]		4 BIOL 2404[2]	4
ENGL 1301[3]		3 CHEM 1406 or 1411[1]	4
KINE 1331[4]		3 ENGL 1302[3]	3

KINE 2114	1	HSTY 1301[7]	3
KINE 2115[5]	1	MATH 1370 or STAT 3379[8]	3
MATH 1314 or 1316[6]	3		
	15		**17**

Second Year

Fall	Hours	Spring	Hours
FSCN 2362[9]	3	Component Area IV (p. 89)	3
HSTY 1302[7]	3	Component Area V (p. 90)	3
PHYS 1305 or 1301	3	COMS 1361[12]	3
PHYS 1105 or 1101	1	KINE 3362	3
POLS 2305[10]	3	POLS 2306[10]	3
PSYC 1301[11]	3		
	16		**15**

Third Year

Fall	Hours	Spring	Hours
ATTR 3370	3	KINE 3364	3
KINE 3173	1	KINE 4314	3
KINE 3373	3	Business Block Electives[13, 15]	9
MGMT 3310 or MKTG 3310[13]	3		
Electives: General (ATTR, BUAD, CHEM, HLTH, KINE, MGMT, MKTG, PHYS, PSYC, SOCI, or SPMT)[14]	3		
Electives: Advanced (ATTR, BUAD, CHEM, KINE, MGMT, MKTG, PHYS, PSYC, SOCI, or SPMT) [14]	2		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
KINE 4361 or 4365	3	KINE 4394[16]	3
KINE 4362	3	KINE 4395[16]	3
KINE 4373	3	Electives: Advanced (ATTR, BUAD, CHEM, KINE, MGMT, MKTG, PHYS, PSYC, or SPMT)[14]	6
KINE 4377	3		
KINE 4393	3		
	15		**12**

Total Hours: 120

1. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and should be taken in your first few semesters. You must earn a C or better.
2. BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
3. Satisfies Core Curriculum requirement for Component Area I (Communications).
4. KINE 1331 should be taken as a freshman or during the first semester. This course is a prerequisite for all upper-level KINE courses. Transfer students can co-enroll in KINE 1331 and upper-level courses with permission. Students interested in the graduate degree in Athletic Training (MSAT) can take ATTR 2300 in place of KINE 1331.
5. Satisfies one semester credit hour of the of Core Curriculum requirement for Component Area IX (Component Area Option).
6. Satisfies Core Curriculum requirement for Component Area II (Mathematics).
7. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
8. Will accept MATH 1342, MATH 3379, or STAT 3379 if transferred in from another institution or major.
9. FSCN 1367 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details. FSCN 2362 requires 3 credit hours of BIOL/CHEM and 6 credit hours of MATH.
10. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
11. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
12. Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).
13. MKTG 3310 has a prerequisite of 50 hours.
    MKTG 3310 is a prerequisite for MKTG 3320, MKTG 3370, ANDMKTG 3328.
    MGMT 3310 is a prerequisite for MGMT 3325, MGMT 3327, AND MGMT 3330.
14. **Electives should match your professional preparation.** Typical pre-requisites for Occupational Therapy (OT) school may include: KINE 3367, PSYC 3331, PSYC 3333, PSYC 3374, SOCI 1301. Additionally, you may need a medical terminology course of 1-3

hours. Other suggested electives for graduate work in Strength Training, Sport and Human Performance, and other Kinesiology degrees include: KINE 3367, ATTR 4369, KINE 4369, KINE 5387, or upper-level courses in BUAD, MKTG, or MGMT. Students wanting to gain research experience may take KINE 4117 and/or KINE 4392 and work with faculty on an approved project. All but 3 hours of electives will be upper level (3000 or 4000 level) courses in ATTR, BUAD, CHEM, KINE, MGMT, MKTG, PHYS, PSYC, SOCI, or SPMT.

15 See, Business Block Elective course list below.

16 Students must enroll in KINE 4394 and KINE 4395 for a total of 6 semester credit hours related to the internship. These courses may be taken in sequence across two semesters, or be completed all in one semester.

Code	Title	Hours
Business Block Elective Courses [13,15]		
BUAD 3338	Entrepreneurial Law	3
BUAD 3345	Entrepreneurship I - Startup	3
BUAD 3355	Business Law	3
MGMT 3325	New Product Commercialization	3
MGMT 3327	Management of Innovation and Technology	3
MGMT 3330	Human Resource Management	3
MKTG 3320	Consumer Behavior	3
MKTG 3328	Professional Selling	3
MKTG 3370	Integrated Marketing Communication and Promotional Strategy	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All ATTR/KINE majors and/or minors must earn a "C" or better for all ATTR, KINE, and/or SPMT courses.

KINE 1331[1] is a prerequisite for upper-level KINE courses and should be taken as a freshman or during the first semester as a transfer.

[1]Students interested in ATTR graduate MSAT program can take ATTR 2300 or KINE 1331.

BIOL 2404 requires a grade of “C” or higher in BIOL 2403.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence.

MATH 3379 requires 3 credit hours of college math.

KINE 3364 requires KINE 1331 or ATTR 2300, and 45 + credit hours.

KINE 3373 requires 45 credit hours of coursework completed and prerequisites of BIOL 2403 and BIOL 2404, and KINE 1331 or ATTR 2300.

ATTR 3370 requires prerequisites of BIOL 2403, KINE 1331 or ATTR 2300, and 45+ credit hours.

KINE 3362 requires prerequisites of KINE 1331 or ATTR 2300, and BIOL 2403 and 45+ credit hours.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 4373 requires a prerequisite of KINE 3373.

KINE 4377 requires a prerequisite of KINE 3362 and KINE 3373, must earn a "C" or better.

KINE 4362 requires a prerequisite of KINE 3362, PHYS 1305 and PHYS 1105 or PHYS 1301 and PHYS 1101.

KINE 4393 requires a prerequisite of KINE 2114, KINE 2115, ATTR 3370, KINE 3373, KINE 3173, and 75 Credit Hours; students must take KINE 4393 at least one semester prior to their KINE 4394 and KINE 4395 Internship.

KINE 4394 and KINE 4395 require Senior Standing and completion of KINE 4393 and KINE 4377, must earn a "C" or better.

KINE 4314 requires a prerequisite of KINE 2114, KINE 2115, KINE 3362, and KINE 3373.

MKTG 3310 has a prerequisite of 50 hours.

MGMT 3310 requires 45 credit hours of coursework completed.

MKTG 3310 is a prerequisite for MKTG 3320, MKTG 3370, and MKTG 3328.

MGMT 3310 is a prerequisite for MGMT 3325, MGMT 3327, and MGMT 3330.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Human Performance and Wellness Management is designed to provide graduates with the following marketable skills:

- Fitness assessment, exercise program design and implementation.
- Fitness and wellness entrepreneurship.
- Determination of strategies for performance enhancement and prevention of injuries.
- Effective communication with a range of audiences in exercise science settings.
- Effective teaching of motor skills in individual and group settings.

Bachelor of Science, Major in Kinesiology

This degree prepares students to enter the field of Kinesiology. Graduates may be employed in work sites, hospitals, recreational facilities, and/or educational environments. Students may also go into graduate school in sport management, sport psychology, and other kinesiology-related advanced master's degrees. Students wanting to complete this degree 100% online will need to work with their advisor to schedule the online sections of classes. Not all classes are offered online, all semesters. Please contact the Department of Kinesiology (kinesiology@SHSU.EDU) if you have specific questions. This degree requires a minor. Students may select Sport Coaching as their minor.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-kinesiology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Kinesiology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology	4
or BIOL 1406	General Biology I	
or BIOL 1407	General Biology II	
BIOL 2403	Human Anatomy & Physiology I [2, 4]	4
BIOL 2404	Human Anatomy & Physiology II [2, 4]	4
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
or PHYS 1305 & PHYS 1105	Classical Physics and Thermodynamics and Classical Physics and Thermodynamics Lab	
or PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1332	College Mathematics	

MATH 1370	Introduction to Biomedical Statistics [5]	3
or MATH 3379	Statistical Methods in Practice	
Major: Foundation		
KINE 1331	Foundations of Kinesiology [6]	3
KINE 2114	Weight Training and Physical Conditioning	1
KINE 2115	Lifetime Health and Wellness [3]	1
KINE 3362	Functional Kinesiology	3
KINE 3363	Assessment in Kinesiology [7]	3
KINE 3364	Motor Learning	3
KINE 3373	Physiology of Exercise	3
KINE 3378	Administration of Kinesiology and Sport [7]	3
or KINE 3365	Sport Law	
or SPMT 3301	Professional Development in Sports	
KINE 3388	Sports in Contemporary Society [8]	3
KINE 4369	Adapted Physical Activity	3
Major: Prescribed Electives		
Select 2 credit hours of Kinesiology Activity Courses		2
KINE 1110	Racquet Sports	
KINE 1113	Basketball and Soccer	
KINE 1114	Rhythmic Activities & Dance	
KINE 1115	Track & Field	
KINE 1117	Lifetime Physical Activities	
KINE 1120	Martial Arts	
or KINE 2110	Scuba/Diving	
or KINE 2111	Golf & Recreational Activities	
KINE 2113	Softball and Volleyball	
KINE 2119	Kinesiology Activities	
KINE, ATTR, SPMT Elective Hours may be at any level		10
Major Prescribed Electives: Advanced [9]		
Advanced KINE, ATTR, or SPMT Electives (classes must be 3000 or 4000 level courses) [9]		12
Minor: Required [10]		
Select 18 hours of Minor courses (a minimum of 9 must be advanced hours)		18
Total Hours		**120**

1. Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. Select one of the following: CHEM 1406 & CHEM 1411 OR PHYS 1305 & PHYS 1105 or PHYS 1301 & PHYS 1101. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3. Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4. BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
5. Will accept MATH 1342, MATH 3379, OR STAT 3379 if transferred in from another institution or major.
6. KINE 1331 is a prerequisite for all upper-level KINE classes and must be taken as a freshman. Transfers must take this course their first semester.
7. Offered in Fall only; may also be offered in Summer.
8. Offered in Spring only; may also be offered in Summer.
9. Advanced KINE, ATTR, or SPMT Electives must be 3000-level or 4000-level courses.
10. If you select the Minor in Sport Coaching, you will need to take KINE electives to meet your 120-hour degree requirement. The following minor cannot be paired with this degree program: Minor in Kinesiology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Must earn a "C" or better for all ATTR, KINE, and/or SPMT courses.

KINE 1331 should be taken during the first year, first semester, or the first semester as a transfer.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence and should complete these courses as freshmen or sophomores.

CHEM 1406 is a prerequisite for CHEM 1407.

KINE 3362 requires a prerequisite of KINE 1331 or ATTR 2300, BIOL 2403 and 45 hours.

KINE 3373 requires junior standing and a minimum of 45 hours and KINE 1331 or ATTR 2300, BIOL 2403 and BIOL 2404

KINE 4393 requires KINE 2114, KINE 2115, ATTR 3370, KINE 3373, and KINE 3173; and 75 credit hours.

KINE Activity Courses are 1000 or 2000-level 1-hour courses.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. Talk to your professors to learn about opportunities.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-kinesiology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2403[1,2]	4	Component Area III (p. 89)[1]	4	HSTY 1301[7]	3
ENGL 1301[3]	3	Component Area VIII (p. 90)	3		
KINE 1331[4]	3	BIOL 2404[1, 2]	4		
MATH 1314 or 1332[5]	3	ENGL 1302[3]	3		
KINE Activity Courses	1	KINE 2115[6]	1		
	14		**15**		**3**

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area V (p. 90)	3	Component Area IX (p. 91)	3	ATTR, KINE, or SPMT Electives	3
HSTY 1302[7]	3	ATTR, KINE, or SPMT Electives	3	KINE 3362	3
KINE 2114	1	BIOL 1408	4		
MATH 1370 or 3376[8]	3	POLS 2306[9]	3		
POLS 2305[9]	3				
	13		**13**		**6**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area IV (p. 89)	3	KINE 3373	3	ATTR, KINE, or SPMT Advanced Electives[10]	3
KINE 3363[11]	3	KINE 3388[12]	3	Minor [13]	3
KINE 3364	3	Minor[13]	6		
KINE 3378, 3365, or SPMT 3301[11]	3				
	12		**12**		**6**

Fourth Year

Fall	Hours	Spring	Hours
ATTR, KINE, or SPMT Advanced Electives[10]	3	ATTR, KINE, or SPMT Advanced Electives[10]	6
KINE 4369	3	Electives: Advanced General	4
Minor [13]	6	KINE Activity Courses	1

Minor[13]	3
12	**14**

Total Hours: 120

1 Select one of the following: CHEM 1406 & CHEM 1411 or PHYS 1305 & PHYS 1105 or PHYS 1301 and PHYS 1101. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
3 Satisfies Core Curriculum requirement for Component Area I (Communications).
4 KINE 1331 is a prerequisite for all upper level KINE classes and must be taken as a freshman. Transfers must take this course their first semester.
5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
6 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
7 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
8 Will accept MATH 1342, MATH 3379, or STAT 3379 if transferred in from another institution or major.
9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
10 Advanced ATTR, KINE or SPMT Electives must be 3000-level or 4000-level courses.
11 Offered in Fall; may also be offered in Summer.
12 Offered in Spring; may also be offered in Summer.
13 If you select the Minor in Sport Coaching, you will need to take electives to meet your 120-hour degree requirement. The following minor cannot be paired with this degree program: Minor in Kinesiology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Must earn a "C" or better for all ATTR, KINE, and/or SPMT courses.

KINE 1331 should be taken during the first year, first semester, or the first semester as a transfer.

Students must take BIOL 2403 and BIOL 2404 as an 8 hour sequence and should compete these courses as freshmen or sophomores.

CHEM 1406 is a prerequisite for CHEM 1407.

KINE 3362 requires a prerequisite of KINE 1331 or ATTR 2300, BIOL 2403, and 45 hours.

KINE 3373 requires junior standing and a minimum of 45 hours and KINE 1331 or ATTR 2300, BIOL 2403, and BIOL 2404

KINE 4393 requires KINE 2114, KINE 2115, ATTR 3370, KINE 3373, and KINE 3173; and 75 credit hours.

KINE Activity Courses are 1000 or 2000-level 1-hour courses.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. Talk to your professors to learn about opportunities.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Kinesiology is designed to provide graduates with the following marketable skills:

- A broad-based examination of Kinesiology.
- Exercise program design and implementation.
- Fitness assessment.

Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)

This degree track prepares students for a career in Clinical Exercise Science. Future job prospects include cardiac rehabilitation, hospital/clinic-based fitness and wellness facilities, sport-science based performance facilities, and/or research facilities. This degree also prepares students for further Graduate Education in Exercise Science, Sport and Human Performance, and Health Professions fields (e.g., physical therapy, occupational therapy, prosthetics and orthotics, physician assistant, athletic training, nursing, osteopathic medicine, chiropractic, pharmacy, etc...). A minor is not

required for this track, however, electives should be used to fulfill courses related to one's career goals. Take careful consideration when selecting your electives to ensure they meet your career goals or your graduate school prerequisites (see course suggestions in the footnotes below).

Code	Title	Hours
Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 1406	General Biology I	4
BIOL 2403	Human Anatomy & Physiology I [2, 6,7]	4
BIOL 2404	Human Anatomy & Physiology II [2, 6,7]	4
CHEM 1411	General Chemistry I [2]	4
COMS 1361	Public Speaking [4]	3
ENGL 3330	Introduction to Technical Writing	3
FSCN 2362	Nutrition	3
KINE 1331	Foundations of Kinesiology [5]	3
KINE 2115	Lifetime Health and Wellness [4]	1
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PSYC 1301	Introduction To Psychology [3]	3
Select one of the following:		3-4
BIOL 4374	Biostatistics	
STAT 3379	Statistical Methods in Practice	
MATH 3379	Statistical Methods in Practice	
PSYC 3401	Research Methods [8]	
Major: Foundation		
ATTR 3370	Prevention & Care of Injuries	3
ATTR 4369	Therapeutic Exercise Interventions	3
or KINE 4314	Advanced Strength Training	
KINE 2114	Weight Training and Physical Conditioning	1
KINE 3173	Exercise Physiology Laboratory [9]	1
KINE 3362	Functional Kinesiology [10]	3
KINE 3364	Motor Learning [10]	3
KINE 3373	Physiology of Exercise [9,10]	3
KINE 4362	Biomechanical Analysis	3
KINE 4373	Advanced Topics in Physiology of Exercise [9]	3
KINE 4375	Kinesiology Research Methods [10]	3
KINE 4377	Principles of Exercise Testing and Prescription [9]	3
KINE 4393	Adult Fitness Management [9]	3
KINE 4394	Internship [11]	3
KINE 4395	Internship II [11]	3
Major: Prescribed Electives [12]		**10**
Prescribed Electives: Advanced [13]		**3**

Minor: Not Required [14,15]	
Total Hours	**120-121**

1 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
5 KINE 1331 should be taken in your first or second year and is a prerequisite for all upper level KINE courses. Transfer students can co-enroll.
6 BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
7 Must take 8-hour sequence of BIOL 2403 and BIOL 2404 and BIOL 2404 requires a grade of "C" or better in BIOL 2403.
8 PSYC 3401 will add one hour to the degree.
9 KINE 3173 and KINE 3373 should be taken in the same semester and are prerequisites for KINE 4377, KINE 4373, and KINE 4393.
10 Prerequisites for KINE 4375 include KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362), KINE 3364 (http://catalog.shsu.edu/search/?P=KINE%203364), and KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373).
11 Register for KINE 4394 and KINE 4395 to complete 6 semester credit hours (200 contact hours for each class). These internship classes can be taken in the same semester or two separate semesters. KINE 4393 is a prerequisite and you must have your internship set up for approval to register. Refer to the internship manual and contact the internship coordinator for assistance.
12 For all Prescribed Electives, students should ensure that the courses meet professional career goals and/or advanced degree prerequisites. Research and review professional schools of interest and the FAQ sections of ATCAS, PTCAS, OTCAS, and OPCAS, and specific program requirements and university websites, based on your professional goals. Examples of typical elective courses for those interested in **applying** to the following **graduate** degree fields include: (*note nursing is the only undergraduate degree program listed below)

- (**a**) **Nursing***: BIOL 2420 and PSYC 3374 are prerequisites.
- (**b**) **Athletic Training**: students should select the Clinical Exercise Science (CES) 3+2 degree track; elective SCH will be taken at the graduate level in the MSAT program, refer to the catalog (https://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext) for specific pre-requisites.
- (**c**) **Physical Therapy**: PHYS 1302, PHYS 1102, PSYC 3374, CHEM 1412, BIOL 1407;
- (**d**) **Occupational Therapy** (OT): KINE 3367, PSYC 3331 , PSYC 3333, PSYC 3374, SOCI 1301
- (**e**) **Prosthetics and Orthotics**: ATTR 4369, KINE 4117 or KINE 4392, KINE 5387
- **(f) Physician Assistant:** CHEM 2323 CHEM 2123, BIOL 2420, BIOL 2440, BIOL 3450, all science courses must be 'for science majors'.
- **(g) Chiropractic**: ATTR 4369, KINE 4314, and KINE 5387.
- (**h**) **Medical School** (DO): PHYS 1302, PHYS 1102, CHEM 2323 and CHEM 2123, CHEM 2325 and CHEM 2125 or CHEM 3438.
- (**i**) **Pharmacy**: PHYS 1302, PHYS 1102, CHEM 2323 and CHEM 2123, CHEM 2325 and CHEM 2125 or CHEM 3438.
- Some programs may also need 1-3 hours of medical terminology.
- Other suggested electives include: ATTR 4369 & KINE 4369; and KINE 4314. Students wanting to gain research experience can take KINE 4117 and /or KINE 4392.
- Major electives can be selected from: ATTR, BIOL, CHEM, HLTH, KINE, PHYS, PSYC, & SOCI.

13 Three elective hours need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement. Major ADVANCED Electives may be selected from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, PSYC & SPMT.
14 A minor is not required for this degree program; however, a student has the option to add a minor. If a minor is added, additional semester credits hours will be required above the degree program's stated total semester credit hours.
15 The Sport Coaching minor **is** allowed to be paired with this degree program. The following minor **cannot** be paired with this degree program: Minor in Kinesiology.

Code	Title	Hours
For students admitted to the Master of Science in Athletic Training (MSAT) 3+2 degree. These courses will be replaced with graduate-level courses in the MSAT program (shown in parentheses).		
ENGL 3330	Introduction to Technical Writing	3
KINE 4375	Kinesiology Research Methods	3
KINE 4393	Adult Fitness Management	3
KINE 4394	Internship	3
KINE 4395	Internship II	3
Major: Prescribed Electives		
HLTH 4395	Special Topics in Health	3
KINE 3363	Assessment in Kinesiology	3
KINE 4117	Practicum	1

KINE 4392	Problems in Kinesiology	3
Total Hours		**25**

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All KINE majors and/or minors must earn a "C" or better for all KINE/ATTR courses.

KINE 1331 should be taken as a freshman or sophomore and is a prerequisite for all upper-level KINE courses.

MATH 1316, MATH 1410 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101 and STAT 3379 or MATH 3379. A grade of “C” or higher is required for courses.

CHEM 1411, with a "C" or higher, is a prerequisite for CHEM 1412.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence and BIOL 2404 requires a grade of "C" or better in BIOL 2403.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

ATTR 3370 and KINE 3362 require prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and 45+ hours.

KINE 3364 requires a prerequisite of KINE 1331 or ATTR 2300, and 45+ hours.

KINE 3373 requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and BIOL 2404, and 45+ hours.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and 75+ hours.

KINE 4373 requires prerequisites of KINE 3373 and KINE 3173.

KINE 4375 requires prerequisites of KINE 3364, KINE 3362, KINE 3373, and KINE 3173 .

KINE 4377 requires prerequisites of KINE 3362, KINE 3173, and KINE 3373.

KINE 4393 requires ATTR 3370, KINE 2114, KINE 2115, KINE 3173, and KINE 3373 and 75+ hours.

KINE 4394 and KINE 4395 require KINE 4393 and KINE 4377.

BIOL 4374 requires 8 hours of advanced BIOL and MATH 1314 or MATH 1420.

Prescribed Electives can be selected from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, PSYC, SOCI, & SPMT. Three elective hours need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
BIOL 2403[1, 2]		4 BIOL 2404[1, 2]	4
ENGL 1301[3]		3 CHEM 1411[1]	4
KINE 1331[4]		3 ENGL 1302[3]	3
KINE 2115[5]		1 KINE 2114	1
MATH 1314[6]		3 PSYC 1301[7]	3
		14	**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area V (p. 90)	3
BIOL 1406		4 FSCN 2362	3
HSTY 1301[8]		3 HSTY 1302[8]	3
MATH 1316		3 PHYS 1101	1

POLS 2305[9]	3	PHYS 1301	3
		POLS 2306[9]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
BIOL 4374, MATH 3379, PSYC 3401, or STAT 3379[10]	3-4	ATTR 3370	3
COMS 1361[5]	3	KINE 3364[12]	3
ENGL 3330	3	KINE 4362	3
KINE 3173[11]	1	Prescribed Electives[13]	6
KINE 3362[12]	3		
KINE 3373[11,12]	3		
	16-17		**15**

Fourth Year

Fall	Hours	Spring	Hours
ATTR 4369 or KINE 4314	3	KINE 4394[14]	3
KINE 4373[11]	3	KINE 4395[14]	3
KINE 4375[12]	3	Prescribed Electives[13]	4
KINE 4377[11]	3	Prescribed Electives: Advanced[15]	3
KINE 4393[11]	3		
	15		**13**

Total Hours: 120-121

1 Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

2 BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement, please, see a SAM Center advisor for more details. Must take eight hour sequence of BIOL 2403 and BIOL 2404.

3 Satisfies Core Curriculum requirement for Component Area I (Communications).

4 KINE 1331 should be taken in your first or second year and is a prerequisite for all upper level KINE courses. Transfer students can co-enroll.

5 Satisfies the Core Curriculum requirement for Component Area IX (Component Area Option).

6 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

7 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

8 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

10 PSYC 3401 will add one hour to the degree.

11 KINE 3173 should be taken with KINE 3373. Both classes are prerequisites for KINE 4373, KINE 4377, and KINE 4393.

12 Prerequisites for KINE 4375 include KINE 3362, KINE 3364, and KINE 3373.

13 For all Prescribed Electives, students should ensure that the courses meet professional career goals and/or advanced degree prerequisites. Research and review professional schools of interest and the FAQ sections of ATCAS, PTCAS, OTCAS, and OPCAS, and specific program requirements and university websites, based on your professional goals. Examples of typical elective courses for those interested in the following graduate degree fields include: (*note nursing is the only undergraduate degree program listed below)

- (**a**) **Nursing***: BIOL 2420 and PSYC 3374 are prerequisites.
- (**b**) **Athletic Training**: students should select the Clinical Exercise Science (CES) 3+2 degree track; elective SCH will be taken at the graduate level in the MSAT program, refer to the catalog (https://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext) for specific pre-requisites.
- (**c**) **Physical Therapy**: PHYS 1302, PHYS 1102, PSYC 3374, CHEM 1412, BIOL 1407;
- (**d**) **Occupational Therapy** (OT): KINE 3367, PSYC 3331 , PSYC 3333, PSYC 3374, SOCI 1301
- (**e**) **Prosthetics and Orthotics**: ATTR 4369, KINE 4117 or KINE 4392, KINE 5387
- **(f) Physician Assistant:** CHEM 2323 CHEM 2123, BIOL 2420, BIOL 2440, BIOL 3450, all science courses must be 'for science majors'.
- **(g) Chiropractic**: ATTR 4369, KINE 4314, and KINE 5387.
- (**h**) **Medical School** (DO): PHYS 1302, PHYS 1102, CHEM 2323 and CHEM 2123, CHEM 2325 and CHEM 2125 or CHEM 3438.
- (**i**) **Pharmacy**: PHYS 1302, PHYS 1102, CHEM 2323 and CHEM 2123, CHEM 2325 and CHEM 2125 or CHEM 3438.
- Some programs may also need 1-3 hours of medical terminology.
- Other suggested electives include: ATTR 4369 & KINE 4369; and KINE 4314. Students wanting to gain research experience can take KINE 4117 and /or KINE 4392.
- Major electives can be selected from: ATTR, BIOL, CHEM, HLTH, KINE, PHYS, PSYC, & SOCI.

[14] Register for KINE 4394 and KINE 4395 to complete 6 semester credit hours. These classes can be taken in the same semester or two separate semesters. Both require KINE 4393 as a prerequisite.

[15] Three elective hours need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement. Major ADVANCED Electives may be selected from ATTR, BIOL, CHEM, KINE, PHYS, PSYC, SOCI, & SPMT.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All KINE majors and/or minors must earn a "C" or better for all KINE/ATTR courses.

KINE 1331 or ATTR 2300 should be taken as a freshman or sophomore and is a prerequisite for all upper level KINE courses.

MATH 1316, MATH 1410 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101. A grade of “C” or higher is required for courses.

CHEM 1411, with a "C" or higher, is a prerequisite for CHEM 1412.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence and BIOL 2404 requires a grade of "C" or better in BIOL 2403.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

ATTR 3370 requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and 45+ hours.

KINE 3362 requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and 45+ hours.

KINE 3364 requires prerequisite of KINE 1331 or ATTR 2300, and 45+ hours.

KINE 3373 requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and BIOL 2404, and 45+ hours.

MATH 3379 requires 3 hours of college math.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and 75+ hours.

KINE 4373 requires prerequisites of KINE 3373 and KINE 3173.

KINE 4375 requires prerequisites of KINE 3364, KINE 3362, KINE 3373, and KINE 3173 .

KINE 4377 requires prerequisites of KINE 3362, KINE 3173, and KINE 3373.

KINE 4393 requires ATTR 3370, KINE 2114, KINE 2115, KINE 3173, and KINE 3373 and 75+ hours.

KINE 4394 and KINE 4395 require KINE 4393 and KINE 4377.

BIOL 4374 requires 8 hours of advanced BIOL and MATH 1314 or MATH 1420.

Prescribed Electives can be selected from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, & PSYC. Six to nine elective hours may need to be 3000- and/or 4000-level courses to meet the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Kinesiology (Clinical Exercise Science) is designed to provide graduates with the following marketable skills:

- Exercise assessment and prescription.
- Fitness program design and implementation.
- Critical thinking and decision making related to ethical and professional responsibilities in exercise science.
- Strategies for performance enhancement and prevention of injuries.
- Effective communication with a range of audiences in exercise science settings.

- Research in exercise science.
- Technical equipment and testing skills in exercise science.

Bachelor of Science, Major in Kinesiology (Clinical Exercise Science): 3+2 MSAT

In the 3+2 degree option, students must apply and be accepted to the **Master of Science in Athletic Training** (**MSAT**) program to complete the dual degree. Students who are not accepted to the MSAT should complete the associated BS degree. Students who complete the MSAT 3+2 dual degrees are awarded both the BS and MSAT degrees upon completion of the 3+2 degree requirements. Below are the requirements for the BS in Kinesiology with a Concentration in Clinical Exercise Science + MSAT.

Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 95 semester credit hours) and all admission requirements.

Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the prescribed 95 undergraduate semester credit hours are completed and the student has been admitted to the MSAT program.

Once a student is accepted to the graduate MSAT program (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/), students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Kinesiology - Clinical Exercise Science (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/) to complete their BS degree.**

MSAT Accreditation

- *Sam Houston State University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).*

MSAT Graduate Catalog (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-and-msat-athletic-training/)

BS Kinesiology - Clinical Exercise Science: (p. 657)

Code	Title	Hours
Bachelor of Science, Major in Kinesiology (Clinical Exercise Science): 3+2 MSAT		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2,3]		8
Component Area IV (Language, Philosophy, and Culture) [4]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [5]		3
Component Area IX (Component Area Option) [6]		4
Degree Specific Requirements		
BIOL 1406	General Biology I [2, 3]	4
BIOL 2403	Human Anatomy & Physiology I [2, 7]	4
BIOL 2404	Human Anatomy & Physiology II [2, 7]	4
CHEM 1411	General Chemistry I [2]	4
COMS 1361	Public Speaking [6]	3
FSCN 2362	Nutrition	3
KINE 1331	Foundations of Kinesiology [8]	3
or ATTR 2300	Introduction to Athletic Training	
KINE 2115	Lifetime Health and Wellness [6]	1
MATH 1314	Pre Calculus Algebra [1]	3

MATH 1316	Plane Trigonometry [1]	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I [9]	4
PSYC 1301	Introduction To Psychology [5]	3
Select one of the following:		3-4
BIOL 4374	Biostatistics	
MATH 3379	Statistical Methods in Practice	
PSYC 3401	Research Methods [10]	
STAT 3379	Statistical Methods in Practice	
Major: Foundation		
KINE 2114	Weight Training and Physical Conditioning	1
KINE 3362	Functional Kinesiology [8,9]	3
KINE 3364	Motor Learning [8]	3
KINE 3373	Physiology of Exercise [8]	3
Major: Required		
ATTR 3370	Prevention & Care of Injuries [8]	3
ATTR 4369	Therapeutic Exercise Interventions	3
or KINE 4314	Advanced Strength Training	
KINE 3173	Exercise Physiology Laboratory	1
KINE 4362	Biomechanical Analysis [9]	3
KINE 4373	Advanced Topics in Physiology of Exercise	3
KINE 4377	Principles of Exercise Testing and Prescription	3
Major: Prescribed Electives [11]		**3**
3+2 MSAT [12]		
ATTR 5140	Clinical Experiences in Athletic Training IV	1
ATTR 5210	Clinical Experiences in Athletic Training I	2
ATTR 5220	Clinical Experiences in Athletic Training II	2
ATTR 5230	Clinical Experiences in Athletic Training III	2
ATTR 5300	Injury Prevention and Protective Strategies	3
ATTR 5310	Clinical Evaluation and Assessment Fundamentals	3
ATTR 5311 & ATTR 5111	Lower Extremity Injuries and Lower Extremity Injuries Lab	4
ATTR 5312 & ATTR 5112	Upper Extremity Injuries and Upper Extremity Injuries Lab	4
ATTR 5313	Head and Facial Injuries in Sport	3
ATTR 5314	Spine and Pelvis Injuries	3
ATTR 5315	Non-Orthopedic Pathologies in Sport and Exercise	3
ATTR 5321 & ATTR 5121	Prehospital Emergency Medicine and Acute Care and Prehospital Emergency Medicine and Acute Care Lab	4
ATTR 5330 & ATTR 5130	Therapeutic Interventions I and Therapeutic Intervention I Lab	4
ATTR 5331 & ATTR 5131	Therapeutic Interventions II and Therapeutic Intervention II Lab	4
ATTR 5340	Administration in Athletic Training	3
HLTH 5371	Health Care Quality & Safety	3
HLTH 5378	Health Care Informatics	3
KINE 5374	Applied Research Methods in Kinesiology	3
ATTR 5450	Immersive Clinical Experiences in Athletic Training	4
Minor: Not Required [13]		
Total Hours		**153-154**

1 MATH 1314 and MATH 1316 satisfy the Core Curriculum requirement for Component Area II (Mathematics).

2 BIOL 1406, BIOL 2403, BIOL 2404, and CHEM 1411 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science). BIOL 1406, BIOL 2403, BIOL 2404, and CHEM 1411 are required prerequisites for the MSAT program and require a grade of “C” or higher.

[3] BIOL 1406 is required.

[4] SOCI 2319 is a recommended (not required) prerequisite for the MSAT program and satisfies Core Curriculum requirement for Component Area IV (Language, a Philosophy, and Culture).

[5] PSYC 1301 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). PSYC 1301 is a required prerequisite for the MSAT program and requires a grade of "C" or higher.

[6] COMS 1361 and KINE 2115 satisfy Core Curriculum requirement for Component Area IX (Component Area Option).

[7] Must take eight-hour sequence of BIOL 2403 and BIOL 2404, and these courses must be taken early in the degree plan to allow proper sequencing of classes. BIOL 2403 and BIOL 2404 are required prerequisites for the MSAT program and require a grade of "C" or higher.

[8] ATTR 2300 is a recommended (not required) prerequisite for the MSAT program and includes 50 observation clinical hours. KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.

[9] KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and all are required prerequisites for the MSAT program and require grades of "C" or higher.

[10] PSYC 3401 adds one semester credit hour to the degree plan.

[11] The Prescribed Electives will include courses from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, or PSYC and should be upper level to meet the 42 advanced hour requirement. HLTH 2372, HLTH 3350, HLTH 3360, KINE 4335 are recommended (not required) prerequisites for the MSAT program.

[12] Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 95 semester credit hours) and all admission requirements. Once a student is accepted to the graduate MSAT program, students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the 95 semester credit hours are completed.
MSAT Graduate Catalog (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)
BS Kinesiology - Clinical Exercise Science (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/)

[13] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours. The following minor cannot be paired with this degree program: Minor in Kinesiology.

Code	Title	Hours
Undergraduate Course TO Graduate Course Crosswalk		
The courses below are included in the BS in Kinesiology-Clinical Exercise Science degree plan and will be replaced with the following graduate level courses present in the MSAT degree plan:		
ENGL 3330	Introduction to Technical Writing (ATTR 5340 replaces this course)	3
KINE 4375	Kinesiology Research Methods (KINE 5374 replaces this course)	3
KINE 4393	Adult Fitness Management (ATTR 5330 replaces this course)	3
KINE 4394	Internship (ATTR 5210 replaces this course)	3
KINE 4395	Internship II (ATTR 5220 replaces this course)	3
Major: Prescribed Electives		
HLTH 4395	Special Topics in Health (ATTR 5300 replaces this course)	3
KINE 3363	Assessment in Kinesiology (ATTR 5310 replaces this course)	3
KINE 4117	Practicum (ATTR 5121 replaces this course)	1
KINE 4392	Problems in Kinesiology (ATTR 5313 replaces this course)	3
Total Hours		**25**

Notes

The MSAT program has a minimum GPA requirement of 3.00 or higher for full regular admission. For more specific MSAT admission requirements, please see the Graduate Catalog page (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext) for more information.

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students who are preparing to apply to graduate programs should earn a "C" or better in their coursework. All KINE majors and/or minors must earn a "C" or better for all KINE/ATTR courses and all MSAT prospective students must earn a "C" or better in all pre-requisite courses.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence and this should be taken early in the degree program. A grade of C or higher in BIOL 2403 is required for BIOL 2404.

Students should take ATTR 2300 or KINE 1331 early in their sophomore year to prepare for upper-level KINE and ATTR courses.

ATTR 2300 is recommended for MSAT 3+2 prospective students and includes 50 observation clinical hours.

KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101.

CHEM 1411 (http://catalog.shsu.edu/search/?P=CHEM%201411), with a "C" or higher, is a prerequisite for CHEM 1412 (http://catalog.shsu.edu/search/?P=CHEM%201412).

MATH 3379 (http://catalog.shsu.edu/search/?P=MATH%203379) requires 3 hours of college math.

KINE 3362 requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and 45+ hours.

KINE 3364 (http://catalog.shsu.edu/search/?P=KINE%203364) requires KINE 1331 or ATTR 2300 and 45+ hours.

ATTR 3370 (http://catalog.shsu.edu/search/?P=ATTR%203370) requires prerequisites KINE 1331 or ATTR 2300 and BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and 45+ hours.

KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373) requires prerequisites KINE 1331 or ATTR 2300 and BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and BIOL 2404 (http://catalog.shsu.edu/search/?P=BIOL%202404) and 45+ hours.

KINE 4314 requires prerequisites of KINE 2114, KINE 2115, and KINE 3373 or KINE 3321.

KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and all are required prerequisites for the MSAT program and require grades of “C” or higher.

KINE 4373 (http://catalog.shsu.edu/search/?P=KINE%204373) requires a prerequisite of KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373).

KINE 4377 (http://catalog.shsu.edu/search/?P=KINE%204377) requires a prerequisite of KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362), KINE 3173, and KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373).

BIOL 4374 (http://catalog.shsu.edu/search/?P=BIOL%204374) requires 8 hours of advanced BIOL and MATH 1314 (http://catalog.shsu.edu/search/?P=MATH%201314) or MATH 1420 (http://catalog.shsu.edu/search/?P=MATH%201420).

First Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)[1]		3 BIOL 2404[2,3]	4
BIOL 2403[2,3]		4 ENGL 1302[4]	3
ENGL 1301[4]		3 HSTY 1302[5]	3
HSTY 1301[5]		3 MATH 1316[6]	3
MATH 1314[6]		3 PSYC 1301[7]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
ATTR 2300 or KINE 1331[8]		3 CHEM 1411[2]	4
BIOL 1406[2,9]		4 FSCN 2362	3
BIOL 4374, MATH 3379, PSYC 3401, or STAT 3379[10]		3-4 KINE 3362[12]	3
COMS 1361[11]		3 POLS 2305[13]	3
KINE 2114		1 POLS 2306[13]	3

KINE 2115[11]		1			
	15-16		**16**		

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area V (p. 90)		3 ATTR 4369 or KINE 4314		3 Students who are accepted into the MSAT will follow this degree path; students not accepted will continue with the BS in Kinesiology - Clinical Exercise Science[15]	
ATTR 3370[8]		3 KINE 3173		1 ATTR 5300[15]	3
KINE 3364[8]		3 KINE 4362[12]		3 ATTR 5310[15]	3
KINE 3373[8]		3 KINE 4373		3 ATTR 5321[15]	3
PHYS 1301 & PHYS 1101[12]		4 KINE 4377		3 ATTR 5121[15]	1
		Prescribed Electives[14]		3	
	16		**16**		**10**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
ATTR 5111		1 ATTR 5112		1 ATTR 5230	2
ATTR 5130		1 ATTR 5131		1 ATTR 5314	3
ATTR 5210		2 ATTR 5220		2 HLTH 5378	3
ATTR 5311		3 ATTR 5312		3 KINE 5374	3
ATTR 5330		3 ATTR 5313		3	
		ATTR 5331		3	
	10		**13**		**11**

Fifth Year

Fall	Hours	Spring	Hours		
ATTR 5450		4 ATTR 5140		1	
HLTH 5371		3 ATTR 5315		3	
		ATTR 5340		3	
	7			**7**	

Total Hours: 153-154

1 SOCI 2319 is a recommended (not required) prerequisite for the MSAT program and satisfies Core Curriculum requirement for Component Area IV (Language, a Philosophy, and Culture).

2 BIOL 1406, BIOL 2403, BIOL 2404, and CHEM 1411 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science). BIOL 1406 BIOL 2403 BIOL 2404, and CHEM 1411 are required prerequisites for the MSAT program and require a grade of "C" or higher.

3 Must take 8 hour sequence of BIOL 2401 and BIOL 2402 or 8 hour sequence of BIOL 2403 and BIOL 2404, and these courses must be taken early in the degree plan to allow proper sequencing of classes.

4 Satisfies the Core Curriculum requirement for Component Area I (Communication).

5 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

6 MATH 1314 and MATH 1316 satisfy the Core Curriculum requirement for Component Area II (Mathematics).

7 PSYC 1301 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). PSYC 1301 is a required prerequisite for the MSAT program and requires a grade of "C" or higher.

8 ATTR 2300 is recommended for MSAT 3+2 prospective students and includes 50 observation clinical hours. KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.

9 BIOL 1406 is required.

10 PSYC 3401 will add one semester credit hour to the degree plan.

11 COMS 1361 and KINE 2115 satisfy Core Curriculum requirement for Component Area IX (Component Area Option).

12 KINE 4362 requires prerequisites of KINE 3362, PHYS 1301, and PHYS 1101 and all are required prerequisites for the MSAT program and require grades of "C" or higher.

13 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

14 The Prescribed Electives will include courses from ATTR, BIOL, CHEM, HLTH, KINE, PHYS, or PSYC and should be upper level to meet the 42 advanced hour requirement. HLTH 2372, HLTH 3350, HLTH 3360, KINE 4335 are recommended (not required) prerequisites for the MSAT program.

[15] Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 95 semester credit hours) and all admission requirements. Once a student is accepted to the graduate MSAT program, students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the 95 semester credit hours are completed.
MSAT Graduate Catalog (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)
BS Kinesiology - Clinical Exercise Science (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/kinesiology/bs-kinesiology-clinical-exercise-science/)

Notes

The MSAT program has a minimum GPA requirement of 3.00 or higher for full regular admission. For more specific MSAT admission requirements, please see the Graduate Catalog page (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext) for more information.

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Kinesiology - Clinical Exercise Science degree.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Kinesiology.

Students who are preparing to apply to graduate programs should earn a "C" or better in their coursework. All KINE majors and/or minors must earn a "C" or better for all KINE/ATTR courses and all MSAT prospective students must earn a "C" or better in all pre-requisite courses.

Students should take ATTR 2300 or KINE 1331 early in their sophomore year to prepare for upper-level KINE and ATTR courses.

ATTR 2300 is recommended for MSAT 3+2 prospective students and includes 50 observation clinical hours. KINE 1331 or ATTR 2300 is a prerequisite for ATTR 3370, KINE 3362, KINE 3364, and KINE 3373.

Students must take BIOL 2403 and BIOL 2404 as an 8-hour sequence and this should be taken early in the degree program.

MATH 1410 (http://catalog.shsu.edu/search/?P=MATH%201410) or MATH 1316 (http://catalog.shsu.edu/search/?P=MATH%201316) or MATH 1420 (http://catalog.shsu.edu/search/?P=MATH%201420) are prerequisites for PHYS 1301 (http://catalog.shsu.edu/search/?P=PHYS%201301) and PHYS 1101 (http://catalog.shsu.edu/search/?P=PHYS%201101). A grade of "C" or higher is required for courses.

CHEM 1411 (http://catalog.shsu.edu/search/?P=CHEM%201411), with a "C" or higher, is a prerequisite for CHEM 1412 (http://catalog.shsu.edu/search/?P=CHEM%201412).

MATH 3379 (http://catalog.shsu.edu/search/?P=MATH%203379) requires 3 hours of college math.

BIOL 4374 (http://catalog.shsu.edu/search/?P=BIOL%204374) requires 8 hours of advanced BIOL and MATH 1314 (http://catalog.shsu.edu/search/?P=MATH%201314) or MATH 1420 (http://catalog.shsu.edu/search/?P=MATH%201420).

ATTR 3370 (http://catalog.shsu.edu/search/?P=ATTR%203370) requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and 45+ hours.

KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373) requires a prerequisites of KINE 1331 or ATTR 2300, BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and BIOL 2404 (http://catalog.shsu.edu/search/?P=BIOL%202404) and 45 hours.

KINE 336 (http://catalog.shsu.edu/search/?P=KINE%203364)2 requires prerequisites of KINE 1331 or ATTR 2300, BIOL 2403, and 45+ hours.

KINE 3364 requires prerequisites of KINE 1331 or ATTR 2300, and 45+ hours.

KINE 4314 requires prerequisites of KINE 2114, KINE 2115, KINE 3362, and KINE 3373.

KINE 4362 (http://catalog.shsu.edu/search/?P=KINE%204362) requires a prerequisite of KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362), PHYS 1301 (http://catalog.shsu.edu/search/?P=PHYS%201301) and PHYS 1101 (http://catalog.shsu.edu/search/?P=PHYS%201101).

KINE 4377 (http://catalog.shsu.edu/search/?P=KINE%204377) requires a prerequisite of KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362) and KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373).

KINE 4373 (http://catalog.shsu.edu/search/?P=KINE%204373) requires a prerequisite of KINE 3373 (http://catalog.shsu.edu/search/?P=KINE%203373).

Program Prerequisites

The following prerequisite coursework is designated as either required or recommended. The required coursework must be satisfactorily completed (a grade of C or better) to be considered for regular admission to the MSAT program. The recommended coursework is optional but completed work in this area may benefit the student in their pursuit of admission to the MSAT program. Recommended prerequisite coursework that is completed at the time of program application will add additional points to the candidate acceptance rubric for the proposed degree.

MSAT Program Required Prerequisite Coursework

The following bachelor's level coursework must be completed prior to applying to the MSAT Program to be considered for full admission. Prerequisite coursework can be in progress when the application is submitted for Conditional Admission. All required coursework must be completed prior to starting the MSAT program and includes:

Code	Title	Hours
SHSU Course Listing: Required Program Prerequisites [1]		
ATTR 2300	Introduction to Athletic Training	3
BIOL 1406	General Biology I	4
or BIOL 1407	General Biology II	
BIOL 2403	Human Anatomy & Physiology I	4
BIOL 2404	Human Anatomy & Physiology II	4
CHEM 1411	General Chemistry I	4
or CHEM 1406	Inorganic & Environmental Chemistry	
FSCN 2362	Nutrition	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
STAT 3379	Statistical Methods in Practice	3
or MATH 3379	Statistical Methods in Practice	
or MATH 1342	Elementary Statistics	
or MATH 1370	Introduction to Biomedical Statistics	
or BIOL 4374	Biostatistics	
PHYS 1301	General Physics-Mechanics and Heat	3
or KINE 4362	Biomechanical Analysis	
PSYC 1301	Introduction To Psychology	3

[1] Required program prerequisites or equivalent.

MSAT Program Recommended Prerequisite Coursework

The recommended prerequisites for the MSAT are not required for admission to the program but can increase the admission score if completed with a grade of **C or higher**. Students seeking admission to the SHSU MSAT program are encouraged to enroll in these courses if electives are available on a student's undergraduate degree plan.

The following bachelor's level coursework is **recommended** to be completed prior to applying to the MSAT Program:

Code	Title	Hours
SHSU Course Listing: Recommended Program Prerequisites [1]		
ATTR 2300	Introduction to Athletic Training	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3350	Principles of Public Health	3
HLTH 3360	Epidemiology	3
KINE 4335	Sport and Exercise Psychology	3

KINE 4362	Biomechanical Analysis	3
SOCI 2319	Introduction To Ethnic Studies	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Kinesiology (Clinical Exercise Science): 3+2 MSAT option is designed to provide graduates with the following marketable skills:

- Exercise assessment and prescription.
- Fitness program design and implementation.
- Critical thinking and decision making related to ethical and professional responsibilities in exercise science.
- Strategies for performance enhancement and prevention of injuries.
- Effective communication with a range of audiences in exercise science settings.
- Communicate and collaborate with other healthcare professions.
- Promote healthy lifestyle behaviors to minimize the risk of injury and illness.
- Implement systematic, evidence-based examinations and assessments to determine best care for active patient populations.
- Utilize best practices in immediate and emergency care situations.
- Apply therapeutic interventions, including therapeutic modalities, manual therapies, and therapeutic exercise.
- Integrate best practices of policy development, documentation practices, and basic business practices to promote optimal patient care.

Undergraduate Certificate in Sport Coaching

The Undergraduate Certificate in Sport Coaching will provide foundational knowledge for students who are Kinesiology and Education Double Majors or any education double majors who intend to become teachers and coaches in the K-12 setting. This certificate can also be selected by students who intend to coach at the collegiate level or outside of the K-12 setting. Further, the certificate program will allow current coaches or individuals who are post-baccalaureate to receive formal coach education.

The Undergraduate Certificate in Sport Coaching can be completed 100% online.

Code	Title	Hours
Undergraduate Certificate in Sport Coaching		
Required Courses		
ATTR 3370	Prevention & Care of Injuries [1]	3
KINE 3320	Foundations of Sport Coaching	3
KINE 3321	Applied Kinesiology	3
KINE 3372	Sport Skills Analysis	3
KINE 4335	Sport and Exercise Psychology	3
Prescribed Electives		
Select four from the following: [2]		4
KINE 3100	Fundamentals of Basketball Coaching	
KINE 3101	Fundamentals of Volleyball Coaching	
KINE 3102	Fundamentals of Football Coaching	
KINE 3103	Fundamentals of Track & Field/Cross Country Coaching	
KINE 3104	Fundamentals of Baseball and Softball Coaching	
KINE 3105	Fundamentals of Soccer Coaching	
Total Hours		**19**

1 BIOL 2403 or KINE 3321 is a prerequisite for this course. Please consider taking BIOL 2403 as one of your sciences as this will strengthen your foundational knowledge. Reach out to the professor with any questions.

2 Each of the *Fundamentals of* courses are five-week, online courses.

The undergraduate certificate will follow the same admission requirements as SHSU and allow for students who are post-baccalaureate.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Sport Coaching is designed to provide graduates with the following marketable skills:

- Develop and implement a clear coaching philosophy through KINE 3320 - Foundations of Sport Coaching.
- Identify age-appropriate developmental practices in multiple sport settings. Students will hear from multiple current elite coaches in their prescribed electives describing their own age-appropriate practices. Students will then create a season and lesson plan for specific age groups in each Fundamentals of Sport Coaching course (i.e., KINE 3100 – KINE 3105).
- Demonstrate the ability to apply kinetic principles in multiple sport settings through their season planning as well as task analysis knowledge gained in both KINE 3372 – Sport Skill Analysis and KINE 3321 – Applied Kinesiology.
- Apply coaching theory to all aspects of the coaching profession including interpersonal and intrapersonal skills. Students will develop their own leadership style, coaching style, and learn coaching theory and ethical decision making in KINE 3320 – Foundations of Sport Coaching as well as in KINE 4335 – Sport and Exercise Psychology.

Minor in Kinesiology

Students seeking a Minor in Kinesiology are required to complete the following coursework.

Most courses are offered both face-to-face and online. This minor can also be completed by those students who are 100% online.

Code	Title	Hours
Minor in Kinesiology		
Required Courses		
KINE 1331	Foundations of Kinesiology [1]	3
KINE 2114	Weight Training and Physical Conditioning	1
KINE 2115	Lifetime Health and Wellness [2]	1
KINE 3362	Functional Kinesiology [1, 3]	3
KINE 3364	Motor Learning [1]	3
KINE 3373	Physiology of Exercise [1, 3, 4]	3
Prescribed Electives		
Choose 6 hours advanced ATTR/KINE/SPMT 3000 or 4000 level [1]		6
Select one of the following:		1
KINE 1110	Racquet Sports (tennis/badminton)	
KINE 1113	Basketball and Soccer	
KINE 1114	Rhythmic Activities & Dance	
KINE 1115	Track & Field	
KINE 1117	Lifetime Physical Activities	
KINE 1120	Martial Arts	
KINE 2111	Golf & Recreational Activities	
KINE 2113	Softball and Volleyball	
KINE 2119	Kinesiology Activities	
KINE 2110	Scuba/Diving	
KINE 4117	Practicum [5]	
Total Hours		**21**

1. KINE 1331 is a prerequisite for all upper-level KINE/ATTR/SPMT courses.
2. Satisfies one hour in Core Curriculum requirement for Component Area IX (Component Area Option)
3. BIOL 2403 is a prerequisite for this course. Please consider taking this as one of your sciences. Reach out to the professor with any questions.
4. BIOL 2403 and BIOL 2404 are prerequisites for this course. Please consider taking these as your sciences. Reach out to the professor with any questions.
5. KINE 4117 is a research-based experience course, and you must have a professor willing to work with you on a project. This course may be completed online with instructor and department chair approval.

Notes

Must earn a "C" or better for all ATTR, KINE, and SPMT courses.

KINE 1331 is recommended to be taken during the Freshman or Sophomore year and is a prerequisite for all upper-level KINE courses.

KINE 3362 has prerequisites of KINE 1331 and BIOL 2403 and 45 hours.

KINE 3364 has prerequisites of KINE 1331 and requires 45 hours.

KINE 3373 has prerequisites of KINE 1331, BIOL 2403, BIOL 2404, and 45 hours.

KINE 4117 requires departmental approval.

Minor in Sport Coaching

The Minor in Sport Coaching (SPCO) meets the needs of those interested in becoming coaches in professional, recreational, youth, and academic settings. The Minor in Sport Coaching provides foundational knowledge for any students who plan to coach in any setting. This minor also serves any Education double majors who intend to become teachers and coaches in the K-12 setting. The Minor in Sport Coaching may also be of interest to students who intend to coach at the collegiate level or outside of the K-12 setting. This minor can be paired with any degree, including a major in Kinesiology. All SPCO minors must earn a "C" or better for all KINE/ATTR courses.

Students who are Kinesiology and Education Double Majors will complete all SPCO courses as part of their degree and can apply for the SPCO certificate prior to graduation.

Most courses are offered both face-to-face and online. This minor can also be completed by those students who are 100% online.

Code	Title	Hours
Minor in Sport Coaching		
Required Courses		
ATTR 3370	Prevention & Care of Injuries [1]	3
KINE 3320	Foundations of Sport Coaching	3
KINE 3321	Applied Kinesiology	3
KINE 3372	Sport Skills Analysis	3
KINE 4335	Sport and Exercise Psychology	3
Prescribed Electives		
Select 4 from the following: [2]		4
KINE 3100	Fundamentals of Basketball Coaching	
KINE 3101	Fundamentals of Volleyball Coaching	
KINE 3102	Fundamentals of Football Coaching	
KINE 3103	Fundamentals of Track & Field/Cross Country Coaching	
KINE 3104	Fundamentals of Baseball and Softball Coaching	
KINE 3105	Fundamentals of Soccer Coaching	
Total Hours		**19**

1 BIOL 2403 or KINE 3321 is a prerequisite for this course. Please consider taking BIOL 2403 as one of your sciences. Reach out to the professor with any questions.

2 Each of the *KINE 31XX Fundamentals of ... Coaching* courses are five-week, online courses. Pay close attention to due dates of assignments.

Department of Physical Therapy

Chair: Dr. Sambit Mohapatra (smohapatra@shsu.edu)

Contact: 936-202-5091

Mission

The Department of Physical Therapy is committed to creating a student-centric environment that fosters academic excellence and encourages discovery. We aim to transform lives through innovative education, hands-on learning, and collaborative practice. By prioritizing professional development and community engagement, we empower our students to become compassionate, skilled professionals who make a meaningful impact in the field of physical therapy and the communities they serve.

Academic Programs

Please visit the current graduate catalog (p. 1627) for more details.

Career Opportunities

Graduates of the Doctor of Physical Therapy program are prepared for diverse career paths across multiple settings and specialty areas:

Clinical Practice Settings

- **Acute Care Hospitals:** Inpatient rehabilitation, ICU, emergency departments
- **Outpatient Clinics:** Private practice, hospital-based outpatient, specialty clinics
- **Skilled Nursing Facilities:** Long-term care, transitional care units
- **Home Health Services:** In-home patient care, telehealth physical therapy
- **School-Based Practice:** Special education services, pediatric school settings
- **Industrial/Occupational Health:** Workplace injury prevention, ergonomics, return-to-work programs
- **Sports Medicine Facilities:** Professional sports teams, collegiate athletics, sports performance centers
- **Wellness and Fitness Centers:** Corporate wellness, community fitness programs
- **Research Institutions:** Clinical research, academic medical centers
- **Government and Military:** Veterans Affairs hospitals, military treatment facilities
- **International Healthcare:** Global health initiatives, medical missions

ABPTS Board-Certified Specialty Areas

The American Board of Physical Therapy Specialties (ABPTS) recognizes 10 specialized areas where physical therapists can achieve board certification:

1. **Cardiovascular and Pulmonary Physical Therapy (CCS)**
   - Cardiac rehabilitation, pulmonary rehabilitation, intensive care
2. **Clinical Electrophysiology (ECS)**
   - Electrodiagnosis, nerve conduction studies, EMG testing
3. **Geriatric Physical Therapy (GCS)**
   - Aging-related conditions, fall prevention, long-term care
4. **Neurologic Physical Therapy (NCS)**
   - Stroke rehabilitation, spinal cord injury, traumatic brain injury, movement disorders
5. **Orthopedic Physical Therapy (OCS)**
   - Musculoskeletal injuries, post-surgical rehabilitation, manual therapy
6. **Pediatric Physical Therapy (PCS)**
   - Developmental delays, congenital conditions, early intervention
7. **Sports Physical Therapy (SCS)**
   - Athletic injury rehabilitation, sports performance enhancement, return-to-sport protocols
8. **Women's Health Physical Therapy (WCS)**
   - Pelvic health, prenatal/postpartum care, women's health conditions
9. **Wound Management (WMS)** - The latest addition to ABPTS specialties
   - Acute, chronic, and non-healing wound care and treatment
10. **Oncology Physical Therapy (OCS)**
    - Cancer rehabilitation, lymphedema management, survivorship care

Advanced Career Pathways

- **Academic Faculty:** University teaching positions, clinical education coordination
- **Clinical Research:** Principal investigator, research coordinator, clinical trials

- **Healthcare Administration:** Rehabilitation directors, department management
- **Consulting:** Healthcare consulting, expert witness testimony
- **Policy and Advocacy:** Professional association leadership, healthcare policy development
- **Entrepreneurship:** Private practice ownership, innovative healthcare solutions
- **Technology Integration:** Telehealth development, digital health platforms
- **Global Health:** International development, humanitarian missions

Leadership and Professional Development

- Professional association leadership roles
- Clinical mentorship and preceptorship
- Continuing education and conference speaking
- Professional writing and publication
- Quality improvement and patient safety initiatives
- Interprofessional collaboration and team leadership

Scholarships

The SHSU Graduate School provides an opportunity for interested students pursuing their graduate degree to receive scholarships and funding for course work.

These opportunities are listed below and can be found through the following links:

- Financial Aid for Graduate Students (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- The General Graduate School Scholarship Application (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate A.S.P.I.R.E. (Academic Success Program in Research Empowerment) Program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate School R.O.A.D. to PhD program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

National Physical Therapy Scholarships

American Physical Therapy Association (APTA) Scholarships:

- **APTA Minority Scholarship Award:** Annual award for minority faculty pursuing postprofessional doctoral degrees
- **APTA Student Scholarships:** $5,000 for DPT students and $3,000 for PTA students (APTA membership required)
- **APTA Academy Scholarships:** Various specialty academy scholarships available through specific practice areas

Foundation for Physical Therapy Research:

- **Doctoral Scholarships:** Up to $45,000 in total awards, including $7,500 for coursework phase and $15,000 for candidacy phase of academic research doctoral studies

Professional Organization Scholarships:

- **APTA Pelvic Health Scholarships:** Multiple awards available annually in partnership with specialty organizations
- **NSCA Minority Scholarship:** $2,000 for minority students seeking DPT degrees
- **National Association of Black Physical Therapists (NABPT) Scholarships:** Various awards for underrepresented students

Private and Foundation Scholarships:

- **Daughters of the American Revolution Occupational/Physical Therapy Scholarship:** Awards for students in financial need accepted to accredited PT programs
- **Rizing Tide Crest Scholarship:** Annual awards for undergraduate students entering PT school or PTAs entering bridge programs
- **Shape Plus Health & Fitness Scholarship:** $1,500 for students pursuing health or fitness-related fields

Texas-Specific Opportunities

Texas Physical Therapy Association (TPTA) Scholarships:

- Annual scholarships for TPTA student members
- Specialty awards for students demonstrating leadership and community service
- Regional chapter scholarships available throughout Texas

Texas State Funding:

- Texas Educational Opportunity Grant (TEOG)
- Texas Public Educational Grant (TPEG)
- Various state-sponsored healthcare professional scholarships

For more information on available scholarships, visit SHSU Scholarships or contact the Department of Physical Therapy directly.

Faculty content here.

Department of Physician Assistant Studies and Athletic Training

Chair: Wilma Mealer, MPAS, PA-C (wjm026@shsu.edu)

Contact: 936-202-5108

Mission

The mission of the Department of Physician Assistant Studies and Athletic Training at Sam Houston State University promotes a team based student-centered curriculum that will encourage personal growth, life-long learning and community engagement, advancing future physician assistants that are capable of distinction in caring for the underserved and marginalized population of Texas and beyond.

Academic Programs

Please visit the current graduate catalog (p. 1630) for more details.

Career Opportunities

- Certified Physician Assistant (with completed MPAS degree and successful completion of certification and licensure)
- Direction patient care roles in a variety of settings from family medicine to palliative care
- Hospital based in-patient care to include hospital medicine, ICU critical care, emergency medicine, cardiology and more
- Academia/PA Education
- Research
- Clinical Operations
- Leadership
- Public Health
- Postgraduate training and certifications

Scholarships

The SHSU Graduate School provides an opportunity for interested students pursuing their graduate degree to receive scholarships and funding for course work.

These opportunities are listed below and can be found through the following links:

- Financial Aid for Graduate Students (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- The General Graduate School Scholarship Application (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate A.S.P.I.R.E. (Academic Success Program in Research Empowerment) Program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate School R.O.A.D. to PhD program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

National Physician Assistant Scholarships

- Physician Assistant Foundation Scholarship: $1,000-$2,500 (https://pa-foundation.org/scholarships-fellowships/pa-student-scholarships/)
- Prentiss L. Harrison Memorial/African Heritage PA Caucus Scholarship: $500-$1,500 (https://ahcaapa.mypanetwork.com/page/106-scholarship-information/)
- PAs for Latino Health Scholarship: $1,000 (https://pa-foundation.org/pas-latino-health-scholarship/)
- LGBT PA Caucus: $1,000 Conference Attendance Grant (https://lbgtpa.wildapricot.org/students/)
- AAPA Veterans Caucus Scholarship: $1,500-$6,500 (https://www.veteranscaucus.org)
- PAs in Hospice and Palliative Medicine (PAHPM) Scholarship: $1,500 (https://pa-foundation.org/the-eva-dimitrov-md-pahpm-student-scholarship/)
- Association of Physician Assistants in Oncology Scholarship: $2,000 (http://www.apao.cc/)
- California Academy of Physician Assistants (http://www.capanet.org/)
- Pennsylvania Society of Physician Assistants Scholarship: $2,000 (http://www.pspa.net/)
- Physician Assistant Academy of Vermont Scholarship: $1,000 (https://paav.mypanetwork.com/page/648-the-paav-devlin-award/)

- Physician Assistants in Orthopaedic Surgery Scholarship: $5,000 (http://paos.org/)
- Society of PAs in Otorhinolaryngology/Head & Neck Surgery Scholarship (http://entpa.org/)
- Society of Army PAs Scholarship: $1,000 (http://sapa.org/)
- Connecticut PA Foundation Scholarship (http://connapa.org/)

Faculty content here.

Department of Public Health

Chair: Amanda Scarbrough, PhD (aes060@shsu.edu), (rgn006@shsu.edu)(936) 294-1168

Associate Chair: Rosanne Keathley, PhD (hpe_rsk@shsu.edu), (936) 294-1171

Assistant Chair: Adannaa Alexander, MPH, (aoalexander@shsu.edu) (936) 294-2718

Website: Department of Public Health (http://www.shsu.edu/academics/health-sciences/health/index_new.html)

Mission

The mission of the Department of Public Health is to foster student-centered learning for early and advanced health professionals; to conduct applied, evidence-based research in population health; and to improve health and well-being through community engagement at the local, state, and global levels.

Highlights

- Nationally-recognized degree programs
- Student health science honorary affiliation-Eta Sigma Gamma
- Career focused program content, activities, and internships
- Diverse student population of various cultural and ethnic backgrounds
- Student-centered faculty and staff
- Graduates are prepared for successful entry into the workforce

Majors where a Health minor is an option

- Business
- Communication
- Criminal Justice
- Marketing
- Education
- Kinesiology
- Psychology
- Sociology

Note: The Health minor is not an option for any majors in the Department of Public Health.

Degree Programs

- Bachelor of Arts, Major in Bilingual Health Care Studies; Minor in Foreign Language (p. 682)
- Bachelor of Science, Major in Health Care Administration (p. 686)
- Bachelor of Science, Major in Health Sciences (p. 691)
- Bachelor of Science, Major in Health Sciences: 3+2 Master of Science in Athletic Training (MSAT) Option (p. 698)
- Bachelor of Science, Major in Integrated Studies: Bioethics and Policy in Healthcare Concentration (p. 748)
- Bachelor of Science, Major in Public Health (p. 705)
- Bachelor of Science, Major in Public Health: 4+1 Master of Public Health (MPH) Option (p. 711)
- Minor in Health (p. 719)

Career Opportunities

- Public and private hospitals and clinics
- Public health education and operations
- Epidemiological research and practice
- Disaster response and preparedness
- International health outreach organizations
- Environmental health field stations and research
- City, county, and state health departments
- Corporate health promotion programs
- Community, medical, and public health navigators
- Federal, state, and local health agencies

- School, community college, and university settings
- Voluntary health agencies and foundations
- Correctional health care operations
- Retirement, assisted living, and skilled nursing facilities

Student Organizations

Eta Sigma Gamma - National Health Science Honorary Society - requires a 3.0 GPA in Health and an overall 2.5 GPA; focus is research, service, and education; volunteer hours required.

Internships

Students majoring in health are required to conduct a 200 hour (3 academic credits) or 400 hour (6 academic credits) professional internship. The internship is conducted during the final semester of coursework, and the setting is approved by the degree program coordinator. Internships may be conducted in the following areas: population health; public health services; health care administration; health sciences; medical services; environmental, community, or school health settings; behavioral health research; governmental and voluntary health organizations; international health agencies; and epidemiological research settings. The instruction and supervision of the internship is facilitated by a professional in the related field.

Scholarships

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Robert J. Wagner Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Public Health

- Roy G. Moss, Jr., Health Education Endowed Scholarship: $500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Behrens Family Scholarship in Honor of Dr. William V. Hyman: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Director/Chair: **Amanda Walters Scarbrough**

Adannaa Oparanozie Alexander, MPH (aoalexander@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, MPH, Emory University; AB, Washington University

Stephen L Brown, PHD (sbrown@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of Maryland-College Park; MS, Arizona State University; BS, Brigham Young University

Ivys R Fernandez Pastrana, BA (irf003@shsu.edu), *Lecturer-Pool Faculty of Public Health*, *Department of Public Health*, BA, Univ of Puerto Rico

Daphne K Fulton, DPH (dsf005@shsu.edu), *Clinical Associate Professor of Public Health*, *Department of Public Health*, DPH, Texas A&M University; MPH, Texas A&M University; BS, Sam Houston State University

Magen Leigh Jordan, MPH (mlj032@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, MPH, Sam Houston State University; BS, Sam Houston State University

Praphul Joshi, PHD (pxj015@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of S Carolina-Columbia; MPH, Univ of S Carolina-Columbia; BDS, Bangalore University

Rosanne S Keathley, PHD (hpe_rsk@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Texas A&M University; MA, Sam Houston State University; BAT, Sam Houston State University

Khalid Mahmood Khan, DPH (kxk051@shsu.edu), *Associate Professor of Public Health*, *Department of Public Health*, DPH, Columbia University; MSC, University of Dhaka; BSC, University of Dhaka

Yu Liu, PHD (yxl068@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, Emory University; MPH, Yale University; BBA, Nankai University

Sarita Shree Mantravadi, PHD (ssm052@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, Univ of Texas HSC-Houston; MS, California St Un-Los Angeles; MPH, California St Un-Long Beach; BA, California St Un-Dominguez Hil

James Arnold Mobley, MD (jam187@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, MD, Univ of Texas HSC-San Antonio; MPH, Texas A&M University; BS, Texas A&M University

Ray Gene Newman, PHD (rgn006@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, New York University; MPHIL, New York University; MBA, California St Un-Long Beach; BS, East Central University

Lauren Irma Rabe, DPA (lauren.rabe@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, DPA, California Baptist University; MPA, Univ of Texas-Pan American; BS, Texas A&M-Kingsville

George Kevin Randall, PHD (gkr001@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Iowa State University; MS, Iowa State University; BSED, Illinois State University

Robert Ellis Roush, EDD (rer022@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, EDD, Univ of Houston-Main; MPH, Univ of Texas HSC-Houston; MED, Sam Houston State University; BS, Sam Houston State University

Jack Dennis Runyan, PHD (jxr136@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, Univ of New Mexico; MA, Univ of Houston-Clear Lake; BS, Univ of Texas Medical Branch

Kiran Sapkota, PHD (kxs133@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, University of Iowa; PHD, University of Iowa; MS, University of Iowa; MPH, New Mexico State University; MS, New Mexico State University; MS, Tribhuvan University; BS, Tribhuvan University

Rhonda Gayle Savoy, MS (stdrgs14@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, MS, Sam Houston State University; BAAS, Sam Houston State University

Amanda Walters Scarbrough, PHD (aes060@shsu.edu), *Associate Professor and Acting Chair of Public Health*, *Department of Public Health*, PHD, Univ of Texas Medical Branch; MHSA, George Washington University; BA, De Pauw University

Mst Rasheda Sultana, PHD (mxs218@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, PHD, Grad Sch & Univ Center; MPHIL, Grad Sch & Univ Center; MSC, University of Dhaka; BSC, University of Dhaka

Courtney Nicole Wallace, MA (cnw008@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, MA, Sam Houston State University; BS, Sam Houston State University

Yue Xie, PHD (yxx008@shsu.edu), *Associate Professor of Practice in Public Health*, *Department of Public Health*, PHD, Univ of Tx Health Science Cntr; ME, Massachusetts Inst of Tech; MHA, Tulane University; BBA, Univ of Miami

Bachelor of Arts, Major in Bilingual Health Care Studies; Minor in Foreign Language

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-bilingual-health-care-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Bilingual Health Care Studies; Minor in Foreign Language		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4, 5]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [1, 6]	4
FSCN 2362	Nutrition [7]	3
KINE 2115	Lifetime Health and Wellness [4]	1
SOCI 2319	Introduction To Ethnic Studies [2]	3
Major: Foundation		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues [3]	3
HLTH 2391	Human Diseases	3
HLTH 3350	Principles of Public Health	3
HLTH 3355	United States Health Care Systems	3
HLTH 3392	Health Communication and Literacy	3
HLTH 4365	Health Care Policy	3
HLTH 4371	Patient Navigation	3
or HLTH 4392	Problems in Health	
HLTH 4375	Health Laws and Ethics	3
HLTH 4387	Community Health	3
HLTH 4393	Professional Preparation for Health Careers [8,9]	3
HLTH 4394	Internship Program [9]	3
Major: Prescribed Electives		
BCHS Electives		
Select 13 hours of the following:		13
COUN 3331	Introduction to Principles Of Counseling	
HLTH 3360	Epidemiology [10]	
HLTH 3390	Family Life & Sex Education	
HLTH 4117	Practicum	
HLTH 4366	Health Informatics	
HLTH 4395	Special Topics in Health	
PHIL 4371	Death and Dying	
Advanced courses in COUN, FACS, PHIL, PHYS or SOCI		6
Minor: Required (Foreign Language) [11]		

Students will take a minimum of 23 hours in Spanish, Spanish Interpretation and Translation for Health Professions, Middle Eastern Studies, French, or German, and must include six hours of the advanced coursework in residence [5]	23
Total Hours	**120**

1 Course satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Course satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
3 Course satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Course satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
5 Satisfies 3 semester credit hours of Core Curriculum requirement for Component Area IX (Component Area Option). Options include ARAB 2311, FREN 2311, GERM 2311, SGNL 2311, and SPAN 2311.
6 BIOL 2401 may be used as a transfer course for this requirement; please see SAM Center advisor for more details.
7 FSCN 1367 may be used as a transfer course for this requirement; please see SAM Center advisor for more details.
8 HLTH 4393 requires a prerequisite of the completion of 12 hours of HLTH course work.
9 Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.
10 MATH 1342 or MATH 1370 or MATH 3379 serve as a prerequisite for this course.
11 All minors are excluded from pairing with this degree program with the exception of a Foreign Language minor.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

HLTH 4365 requires a prerequisite of HLTH 1360, HLTH 2391 and Junior Standing.

HLTH 3350 and HLTH 3355 require a prerequisite of HLTH 1360, HLTH 2391 and 55 completed hours of coursework.

HLTH 4366 requires a prerequisite of HLTH 1360, HLTH 2391, and HLTH 3350.

HLTH 4394 requires a prerequisite of HLTH 1360, HLTH 2391, and HLTH 4393 with a "C" or better.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

HLTH 3360 requires a prerequisite of (a) HLTH 1360, (b) HLTH 2391 and (c) either MATH 1342, MATH 1370, MATH 3379, or STAT 3379.

HLTH 4393 requires a prerequisite of HLTH 1360, HLTH 2391, and 12 completed hours of of HLTH coursework.

HLTH 3392, HLTH 4117, HLTH 4371, and HLTH 4395 require HLTH 1360 and HLTH 2391 as course prerequisites.

Key Competency Areas

- Assessing individual and community needs.
- Planning effective public health programs.
- Implementing public health programs.
- Evaluating the effectiveness of public health programs.
- Coordinating the provision of public health education and services.
- Acting as a resource person.
- Communication of public health and public health education needs.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-bilingual-health-care-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)	3	Component Area IV (p. 89)	3
Component Area III (p. 89)	4	BIOL 2403[4]	4
ENGL 1301[1]	3	ENGL 1302[1]	3
HSTY 1301[2]	3	HSTY 1302[2]	3

KINE 2115[3]		1 SOCI 2319[5]	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 HLTH 2383[8]	3
HLTH 1360		3 POLS 2306[7]	3
Minor[6]		4 Minor[6]	4
POLS 2305[7]		3 BCHS Electives[9]	6
	13		**16**

Third Year

Fall	Hours	Spring	Hours
FSCN 2362[10]		3 Advanced level courses in COUN, FACS, PHIL, PSYC, SOCI	3
HLTH 2372		3 HLTH 2391	3
HLTH 3350		3 HLTH 3392	3
HLTH 3355		3 HLTH 4387	3
Minor[6]		3 Minor Advanced [6]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
HLTH 4365		3 Advanced level courses in COUN, FACS, PHIL, PSYC, SOCI	3
HLTH 4371 or 4392		3 HLTH 4375	3
HLTH 4393[11]		3 HLTH 4394	3
BHCS Elective[9]		4 BHCS Elective[9]	3
Minor Advanced [6]		3 Minor Advanced [6]	3
	16		**15**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4 BIOL 2401 may be used as a transfer course for this requirement; please see SAM Center advisor for more details.
5 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
6 All minors are excluded from pairing with this degree program with the exception of a Foreign Language minor.
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8 Satisfies the requirement for Component Area VIII (Social and Behavioral Sciences).
9 See, below listing of BCHS Elective Courses.
10 FSCN 1367 may be used as a transfer course for this requirement; please see SAM Center advisor for more details.
11 HLTH 4393 requires a prerequisite of 12 completed hours of HLTH course work.

Code	Title	Hours
BCHS Elective Courses [9]		
COUN 3331	Introduction to Principles Of Counseling	3
HLTH 3360	Epidemiology	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum	1
HLTH 4366	Health Informatics	3
HLTH 4395	Special Topics in Health	3
PHIL 4371	Death and Dying	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

HLTH 4365 requires a prerequisite of HLTH 1360, HLTH 2391 and Junior Standing.

HLTH 3350 and HLTH 3355 require a prerequisite of HLTH 1360, HLTH 2391 and 55 completed hours of coursework.

HLTH 4366 requires a prerequisite of HLTH 1360, HLTH 2391, and HLTH 3350.

HLTH 4394 requires a prerequisite of HLTH 1360, HLTH 2391, and HLTH 4393 with a "C" or better.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

HLTH 3360 requires a prerequisite of (a) HLTH 1360, (b) HLTH 2391 and (c) either MATH 1342, MATH 1370, MATH 3379, or STAT 3379.

HLTH 4393 requires a prerequisite of HLTH 1360, HLTH 2391, and 12 completed hours of of HLTH coursework.

HLTH 3392, HLTH 4117, HLTH 4371, and HLTH 4395 require HLTH 1360 and HLTH 2391 as course prerequisites.

All minors are excluded from pairing with this degree program with the exception of a Foreign Language minor.

To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), options include ARAB 2311, FREN 2311, GERM 2311, SGNL 2311, and SPAN 2311.

Key Competency Areas

- Assessing individual and community needs.
- Planning effective health education programs.
- Implementing health education programs.
- Evaluating the effectiveness of health education programs.
- Coordinating the provision of health education services.
- Acting as a resource person.
- Communication of health and health education needs.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The course content of the BA in Bilingual Health Care Studies Program will prepare students with the following marketable skills.

- Effectively communicate professional health information to patients and clients in need of medical services.
- Conduct health and wellness activities and presentations to in the native language of the participants.
- Develop health programs that include the cultural mores and ethno-medical practices of the target population.
- Serve as a resource person to connect underrepresented populations to social, educational, and medical services in the community, state, and nation.
- Act as culturally competent patient navigator for families and patients receiving medical care in health clinics, hospitals districts, health departments, and hospital systems.
- Conduct health-related needs assessments to under-served populations in communities.
- Develop valid and reliable evaluation strategies to determine the effectiveness of health programs, campaigns, and events.

Bachelor of Science, Major in Health Care Administration

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-health-care-administration/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Health - Health Care Administration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2,5]	4
BIOL 2404	Human Anatomy & Physiology II [5]	4
CHEM 1406	Inorganic & Environmental Chemistry [2,6]	4
FSCN 2362	Nutrition [7]	3
KINE 2115	Lifetime Health and Wellness [4]	1
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1342	Elementary Statistics	3
or MATH 1370	Introduction to Biomedical Statistics	
or MATH 3379	Statistical Methods in Practice	
PSYC 1301	Introduction To Psychology [3]	3
Major: Foundation		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers [8]	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases [8]	3
HLTH 3350	Principles of Public Health [8]	3
HLTH 3355	United States Health Care Systems [8]	3
HLTH 3360	Epidemiology [8]	3
HLTH 3361	Health Planning & Evaluation [8]	3
HLTH 4365	Health Care Policy [8]	3
HLTH 4366	Health Informatics	3
HLTH 4367	Economics for Health Managers [9]	3
or ECON 4350	Health Economics and Finances	
HLTH 4375	Health Laws and Ethics [8]	3
HLTH 4393	Professional Preparation for Health Careers [8,10]	3
HLTH 4394	Internship Program [8,10]	3
Major Concentration: HCA Administration		
ACCT 2301	Principles of Financial Accounting	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2302	Principles Of Microeconomics	3
MGMT 3310	Principles Of Management	3
MGMT 3330	Human Resource Management	3
MKTG 3310	Principles Of Marketing	3
Major: Prescribed Electives		

Select 5 hours of the following:		5
ACCT 2302	Principles of Managerial Accounting	
BANA 2372	Business Analysis	
BIOL 2420	Introduction to Applied Microbiology	
ECON 2301	Principles Of Macroeconomics	
FINC 3320	Business Finance	
HLTH 3385	Safety Education	
HLTH 3390	Family Life & Sex Education	
HLTH 3392	Health Communication and Literacy	
HLTH 4117	Practicum (may be repeated) [8]	
HLTH 4371	Patient Navigation [8]	
HLTH 4380	Global Health	
HLTH 4387	Community Health	
HLTH 4390	Environmental Health [8]	
HLTH 4395	Special Topics in Health	
KINE 2330	First Aid and CPR - American Red Cross	
PSYC 3374	Development Psychology	
Minor: Not Required [11,12]		
Total Hours		**120**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
6 For 100% online BS in Health Care Administration students, BIOL 1408 will be accepted for this requirement.
7 FSCN 1367 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
8 HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350, HLTH 3355, HLTH 3360, HLTH 3361, HLTH 4117, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4390, HLTH 4393, and HLTH 4394.
9 ECON 4350 is only offered during the fall and spring term.
10 For courses HLTH 4393 and HLTH 4394 students must earn a grade of “C” or better.
11 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program’s stated total semester credit hours.
12 The following minor cannot be paired with this degree program: Minor in Health.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Degree must have 120 hours with at least 42 advanced hours (3000 and 4000) taken at a four year institution.

Consult current University catalog for questions concerning transfer courses and residency requirements.

Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.

ACCT 2301 requires 18 hours of completed course work.

ACCT 2302 requires a prerequisite of ACCT 2301.

BIOL 2402 requires a grade of “C” or better in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" or better in BIOL 2403.

BIOL 2420 requires a minimum grade of "C" in BIOL 2403 and BIOL 2404, and "C" or better in CHEM 1411 or CHEM 1406.

BUAD 3335 requires a prerequisite of ENGL 1302, which satisfies 3 hours of the Core Curriculum requirement for Component Area I (Communications).

FINC 3320 requires the prerequisites of ACCT 2302 and MATH 1324 or equivalent. MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).

HLTH 3350, HLTH 3361, and HLTH 4387 requires a prerequisite of HLTH 1360, and HLTH 2391 and requires 55 hours completed.

HLTH 3360 requires the prerequisites of HLTH 1360, and HLTH 2391, and MATH 1342, MATH 1370, MATH 3379 or STAT 3379.

HLTH 3392 requires the prerequisites of HLTH 1360, and HLTH 2391.

HLTH 4365, HLTH 4366, and HLTH 4390 requires the prerequisites of HLTH 1360, and HLTH 2391 and Junior standing.

HLTH 4366 requires a prerequisite of HLTH 1360, and HLTH 2391, and HLTH 3350 and HLTH 3355.

HLTH 4393 requires the prerequisites of HLTH 1360, and HLTH 2391, and requires the completion of 12 hours of completed HLTH course work.

HLTH 4394 requires the prerequisites of HLTH 1360, and HLTH 2391, and HLTH 4393.

MGMT 3310 requires 50 hours of completed course work.

MGMT 3330 requires a prerequisite of MGMT 3310.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-health-care-administration/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
CHEM 1406[1,2]	4	Component Area IV (p. 89)	3
ENGL 1301[3]	3	BIOL 2403[1,7]	4
KINE 2115[4]	1	ENGL 1302[3]	3
MATH 1314[5]	3	HSTY 1301[8]	3
PSYC 1301[6]	3	MATH 1342, 1370, or 3379	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
BIOL 2404[7]	4	Component Area V (p. 90)	3
FSCN 2362[9]	3	Component Area IX (p. 91)	3
HSTY 1302[8]	3	HLTH 2383	3
HLTH 1360[10]	3	HLTH 2391	3
POLS 2305[11]	3	POLS 2306[11]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
ECON 2302	3	ACCT 2301	3
HLTH 2372	3	BUAD 3301	3
HLTH 3350[10]	3	HLTH 3361[10]	3
HLTH 3355[10]	3	MGMT 3310	3
HLTH 3360[10]	3	Prescribed Electives[12]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
BUAD 3335	3	HLTH 4367 or ECON 4350[14]	3
HLTH 4365[10]	3	HLTH 4375[10]	3
HLTH 4366	3	HLTH 4394[10,13]	3
HLTH 4393[10,13]	3	MKTG 3310	3

MGMT 3330	3 Prescribed Electives[12]	2
	15	**14**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 For 100% online BS in Health Care Administration students, BIOL 1408 will be accepted for this requirement.
3 Satisfies Core Curriculum requirement for Component Area I (Communications).
4 Satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
6 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7 BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement; please see SAM Center advisor for more details.
8 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
9 FSCN 1367 may be used as a transfer course for this requirement; please see SAM Center advisor for more details.
10 HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350, HLTH 3355, HLTH 3360, HLTH 3361 HLTH 4117 HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375 HLTH 4390, HLTH 4393 and HLTH 4394.
11 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
12 See, Prescribed Electives course listing below.
13 HLTH 4393 & HLTH 4394 student must earn a “C” grade or better.
14 ECON 4350 is only offered during the fall and spring term.

Code	Title	Hours
Prescribed Elective Courses [12]		
Select 5 hours from the following:		
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis	3
BIOL 2420	Introduction to Applied Microbiology	4
ECON 2301	Principles Of Macroeconomics	3
FINC 3320	Business Finance	3
HLTH 3385	Safety Education	3
HLTH 3390	Family Life & Sex Education	3
HLTH 3392	Health Communication and Literacy	3
HLTH 4117	Practicum	1
HLTH 4371	Patient Navigation	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health	3
HLTH 4395	Special Topics in Health	3
KINE 2330	First Aid and CPR - American Red Cross	3
PSYC 3374	Development Psychology	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program’s stated total semester credit hours.
The following minor cannot be paired with this degree program: Minor in Health.
Degree must have 120 hours with at least 42 advanced hours (3000 and 4000) taken at a four year institution.

Consult current University catalog for questions concerning transfer courses and residency requirements.

Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.

ACCT 2301 requires 18 hours of completed course work.

ACCT 2302 requires a prerequisite of ACCT 2301.

BIOL 2402 requires a grade of “C” or better in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" or better in BIOL 2403.

BIOL 2420 requires a minimum grade of "C" in BIOL 2401 and BIOL 2402, and "C" or better in CHEM 1411 or CHEM 1406.

BUAD 3335 requires a prerequisite of ENGL 1302, which satisfies 3 hours of the Core Curriculum requirement for Component Area I (Communications).

FINC 3320 requires the prerequisites of ACCT 2302 and MATH 1324 or equivalent. MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).

HLTH 3350, HLTH 3361, and HLTH 4387 requires a prerequisite of HLTH 1360, and HLTH 2391 and requires 55 hours completed.

HLTH 3360 requires the prerequisites of HLTH 1360, and HLTH 2391, and MATH 1342, MATH 1370, MATH 3379 or STAT 3379.

HLTH 3392 requires the prerequisites of HLTH 1360, and HLTH 2391.

HLTH 4365, HLTH 4366, and HLTH 4390 requires the prerequisites of HLTH 1360, and HLTH 2391 and Junior standing.

HLTH 4366 requires a prerequisite of HLTH 1360, and HLTH 2391, and HLTH 3350 and HLTH 3355.

HLTH 4393 requires the prerequisites of HLTH 1360, and HLTH 2391, and requires the completion of 12 hours of completed HLTH course work.

HLTH 4394 requires the prerequisites of HLTH 1360, and HLTH 2391, and HLTH 4393.

MGMT 3310 requires 50 hours of completed course work.

MGMT 3330 requires a prerequisite of MGMT 3310.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Health Care Administration is designed to provide graduates with the following marketable skills:

- Manage the cost and revenues associated with the efficient operation of healthcare systems.
- Respect the unique characteristics in diversity of patients, customers, employees and vendors associated in a health care operation.
- Apply health care information technology systems to support efficiency in the operation of a public and private health care facility.
- Develop strategic plans for health care systems that integrate ethics and social responsibility into the marketing strategies.
- Demonstrate the ethical responsibility in their professional careers that are identified in the Health Care Executive Code of Ethics.
- Apply the functions, roles, and responsibilities of Health Care Managers.

Bachelor of Science, Major in Health Sciences

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-health-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Health Sciences		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 5]	4
BIOL 2404	Human Anatomy & Physiology II [5]	4
CHEM 1411	General Chemistry I [2]	4
or CHEM 1406	Inorganic & Environmental Chemistry	
KINE 2115	Lifetime Health and Wellness [4]	1
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics [6]	3
PSYC 1301	Introduction To Psychology [3]	3
PSYC 3374	Development Psychology	3
Major: Foundation		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers [7]	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases [7]	3
HLTH 3350	Principles of Public Health [7]	3
HLTH 3355	United States Health Care Systems [7, 8]	3
HLTH 3360	Epidemiology [7]	3
HLTH 4393	Professional Preparation for Health Careers [7,9]	3
HLTH 4394	Internship Program [7, 9]	3
Major: Prescribed Electives OR Undergraduate Certificate in Communication for Health and Social Care Professionals [10]		**41**
Prescribed Electives [11, 12, 13]		
From the list below, select 41 hours of Prescribed Electives (21 hours must be 3000 or 4000 level). Students may not count more than 20 credit hours of science and math as electives; the remainder must be from outside science and math.		
OR		
Undergraduate Certificate in Communications in Health and Social Care Professionals [14]		
COMS 3375	Strategic Organizational Communication	
COMS 3386	Learning to Listen: A Key Communication Competency	
COMS 3391	Interpersonal Health Communication	
COMS 3392	Risk Communication	
COMS 3393	Environmental Communication	
HLTH 3355	United States Health Care Systems [8]	
Prescribed Electives [14]		
HLTH 3392	Health Communication and Literacy	

AND	
23 hours of electives selected from the below Prescribed Electives course llst.	
Minor: Not Required [15,16]	
Total Hours	**120**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
6 MATH 1342 or MATH 3379 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
7 HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350, HLTH 3355, HLTH 3360, HLTH 3361, HLTH 4117, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4390, HLTH 4393, and HLTH 4394.
8 HLTH 3355 satisfies the requirement for both the Major and the Undergraduate Certificate, if Undergraduate Certificate option is chosen.
9 Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.
10 Students may select from the Undergraduate Certificate in Communication for Health and Social Care Professionals + HLTH 3392 and 23 hours of Prescribed Electives OR 41 hours of Prescribed Electives. Please select from the list of Prescribed Electives and consult with your advisor on appropriate course choices. Please note that HLTH 3355 double dips in both the Major: Foundation and Undergraduate Certificate areas.
11 Select 41 hours of **track-specific** requirements not to exceed 20 combined credit hours of science and math. Must complete 42 credit hours of advanced credit (3000-4000).
12 Pre-nursing and pre-chiropractic students should take BIOL 2420 or BIOL 3470 Fall of second year.
13 Pre-nursing students must take FSCN 2362.
14 Select 41 hours of track specific requirements **OR** Undergraduate Certificate for Health and Social Care Professionals (18 SCH) + HLTH 3392 and 23 SCH of Prescribed Electives courses, not to exceed 20 combined credit hours of science and math. Must complete 42 credit hours of advanced credit (3000-4000). Please note that HLTH 3355 double dips in both the Major: Foundation and Undergraduate Certificate areas.
15 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
16 The following minor cannot be paired with this degree program: Minor in Health.

Code	Title	Hours
Prescribed Electives [14]		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2411	General Botany	4
BIOL 2413	General Zoology	4
BIOL 2420	Introduction to Applied Microbiology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4350	Immunology	3
BIOL 4360	Genetic Analysis of Human Disease	3
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
COMS 1361	Public Speaking	3
COMS 3391	Interpersonal Health Communication	3
COMS 4386	Family Communication	3
COUN 3321	Introduction to the Helping Relationship	3
COUN 3322	Career Development	3
COUN 3331	Introduction to Principles Of Counseling	3
COUN 3332	Therapeutic Play Skills	3
COUN 4379	Wellness Counseling	3
ECHE 3313	Early Childhood Cognition	3

ENGL 3330	Introduction to Technical Writing	3
FSCN 2362	Nutrition	3
FORS 3420	Human Osteology: Analysis of Human Bone	4
HLTH 1366	Lifestyle and Wellness	3
HLTH 3361	Health Planning & Evaluation [7]	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum [7]	1
HLTH 4365	Health Care Policy [7]	3
HLTH 4367	Economics for Health Managers [7]	3
HLTH 4371	Patient Navigation [7]	3
HLTH 4375	Health Laws and Ethics [7]	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health [7]	3
HLTH 4394	Internship Program	3
KINE 2330	First Aid and CPR - American Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3373	Physiology of Exercise	3
KINE 4362	Biomechanical Analysis	3
MATH 1316	Plane Trigonometry	3
MATH 1420	Calculus I	4
MCPA 4381	Social Marketing for Public Relations and Advertising	3
PHIL 4333	Bioethics	3
PHIL 4371	Death and Dying	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3365	Close Relationships	3
SOCI 1301	Introduction to Sociology	3
SOCI 3341	Marriage And The Family	3
SOCI 3365	Sociology Of Health & Illness	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" or higher in BIOL 2403.

BIOL 3470 requires the prerequisite of BIOL 2411, BIOL 2413, BIOL 2440, CHEM 1412 .

COMS 4386 requires COMS 2386.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330.

HLTH 3350 , HLTH 3355, and HLTH 4387 require prerequisites of HLTH 1360 and HLTH 2391 and 55 credit hours completed.

HLTH 3360 requires a prerequisite of one of the following: HLTH 1360 and HLTH 2391 and MATH 1342, MATH 1370, MATH 3379, or STAT 3379 .

HLTH 4380 and HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

HLTH 4393 requires a prerequisite of HLTH 1360 and HLTH 2391 and 12 hours of Health.

HLTH 4394 is the required prerequisite ofHLTH 1360 and HLTH 2391 and HLTH 4393 with a C or better.

KINE 3362 requires a prerequisite of BIOL 2401 or BIOL 2403 and 60 credit hours.

MATH 1316 or MATH 1410 or MATH 1420 are prerequisites for PHYS 1101 and PHYS 1301. A grade of “C” or higher is required for courses.

KINE 3362 requires Sophomore standing.

HLTH 3361 requires a prerequisite of HLTH 1360 and HLTH 2391 and 55 hours completed.

HLTH 4117 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

HLTH 4365 requires a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4367 requires a prerequisite of HLTH 1360, HLTH 2391, HLTH 3350, ECON 2301 or ECON 2302 and Senior Standing.

HLTH 4371 requires a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4375 requires a prerequisite of HLTH 1360, HLTH 2391, and HLTH 3355.

HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-health-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 2403[1, 2]	4	BIOL 2404[2]	4
ENGL 1301[3]	3	CHEM 1411 or 1406[1]	4
HSTY 1301[4]	3	KINE 2115[6]	1
HLTH 1360	3	MATH 1370[7]	3
MATH 1314, 1410, or 1420[5]	3	PSYC 1301[8]	3
	16		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)[9]	3	Component Area IV (p. 89)[9]	3
Component Area IX (p. 91)[9]	3	HLTH 2372	3
ENGL 1302[3]	3	HLTH 2383	3
HLTH 2391	3	HSTY 1302[4]	3
POLS 2305[10]	3	POLS 2306[10]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
HLTH 3350[11]	3	HLTH 3360[11]	3
HLTH 3355[11, 12]	3	HLTH 4393[11,16]	3
PSYC 3374	3	Prescribed Electives or UG Cert Courses[13,14,15]	9
Prescribed Electives or UG Cert Courses[13,14,15]	6		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
HLTH 3392	3	HLTH 4394[16]	3

Prescribed Electives or UG Cert Courses[13,14,15]	12 Prescribed Electives or UG Cert Courses[13,14,15]	11
	15	**14**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
3 Satisfies Core Curriculum requirement for Component Area I (Communications).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
6 Satisfies one hour of Core Curriculum requirement for Component Area IX (Component Area Option).
7 MATH 1342 or MATH 3379 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
8 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
9 Component Area IV (Language, Philosophy, and Culture), Component Area V (Creative Arts), or Component Area IX (Component Area Option) can be taken to fulfill this requirement.
10 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
11 HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350, HLTH 3355, HLTH 3360, HLTH 3361, HLTH 4117, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4390, HLTH 4393, and HLTH 4394.
12 HLTH 3355 satisfies the requirement for both the Major and the Undergraduate Certificate, if Undergraduate Certificate option is chosen.
13 Select 41 hours of track specific requirements **OR** Undergraduate Certificate for Health and Social Care Professionals (18 SCH) + HLTH 3392 and 23 SCH of Prescribed Electives courses, not to exceed 20 combined credit hours of science and math. Must complete 42 credit hours of advanced credit (3000-4000). Please note that HLTH 3355 double dips in both the Major: Foundation and Undergraduate Certificate areas.
14 Pre-nursing and pre-chiropractic students should take BIOL 2420 or BIOL 3470 Fall of second year.
15 Pre-nursing students must take FSCN 2362.
16 Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

Code	Title	Hours
Prescribed Electives [13]		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2411	General Botany	4
BIOL 2413	General Zoology	4
BIOL 2420	Introduction to Applied Microbiology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4350	Immunology	3
BIOL 4360	Genetic Analysis of Human Disease	3
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
COMS 1361	Public Speaking	3
COMS 3391	Interpersonal Health Communication	3
COMS 4386	Family Communication	3
COUN 3321	Introduction to the Helping Relationship	3
COUN 3322	Career Development	3
COUN 3331	Introduction to Principles Of Counseling	3
COUN 3332	Therapeutic Play Skills	3
COUN 4379	Wellness Counseling	3
ECHE 3313	Early Childhood Cognition	3
ENGL 3330	Introduction to Technical Writing	3
FSCN 2362	Nutrition	3
FORS 3420	Human Osteology: Analysis of Human Bone	4

HLTH 1366	Lifestyle and Wellness	3
HLTH 3361	Health Planning & Evaluation [11]	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum [11]	1
HLTH 4365	Health Care Policy [11]	3
HLTH 4367	Economics for Health Managers [11]	3
HLTH 4371	Patient Navigation [11]	3
HLTH 4375	Health Laws and Ethics [11]	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health [11]	3
HLTH 4394	Internship Program	3
KINE 2330	First Aid and CPR - American Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3373	Physiology of Exercise	3
KINE 4362	Biomechanical Analysis	3
MATH 1316	Plane Trigonometry	3
MATH 1420	Calculus I	4
MCPA 4381	Social Marketing for Public Relations and Advertising	3
PHIL 4333	Bioethics	3
PHIL 4371	Death and Dying	3
PHYS 1302 & PHYS 1101	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory I	4
PHYS 1301 & PHYS 1102	General Physics-Mechanics and Heat and General Physics Laboratory II	4
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3365	Close Relationships	3
SOCI 1301	Introduction to Sociology	3
SOCI 3341	Marriage And The Family	3
SOCI 3365	Sociology Of Health & Illness	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" or higher in BIOL 2403.

BIOL 3470 requires the prerequisite of BIOL 1411, BIOL 1413, BIOL 2440, CHEM 1412 .

COMS 4386 requires COMS 2386.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330.

HLTH 3350, HLTH 3355, and HLTH 4387 require prerequisites of HLTH 1360 and HLTH 2391 and 55 credit hours completed.

HLTH 3360 requires a prerequisite of one of the following: HLTH 1360 and HLTH 2391 and MATH 1342, MATH 1370, MATH 3379, or STAT 3379.

HLTH 4380 and HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

HLTH 4393 requires a prerequisite of HLTH 1360 and HLTH 2391 and 12 hours of Health.

HLTH 4394 is the required prerequisite of HLTH 1360 and HLTH 2391 and HLTH 4393 with a C or better.

KINE 3362 requires a prerequisite of BIOL 2401 or BIOL 2403 and 60 credit hours.

MATH 1316 or MATH 1410 or MATH 1420 are prerequisites for PHYS 1101 and PHYS 1301. A grade of “C” or higher is required for courses.

KINE 3362 requires Sophomore standing.

HLTH 3361 requires a prerequisite of HLTH 1360 and HLTH 2391 and 55 hours completed.

HLTH 4117 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

HLTH 4365 requires a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4367 requires a prerequisite of HLTH 1360, HLTH 2391, HLTH 3350, ECON 2301 or ECON 2302 and Senior Standing.

HLTH 4371 requires a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4375 requires a prerequisite of HLTH 1360, HLTH 2391, and HLTH 3355.

HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391 and Junior Standing.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program’s stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Health.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Health Sciences is designed to provide graduates with the following marketable skills:

- Recognize and identify specific health and social needs of diverse populations.
- Make informed decisions relative to the political, economic, social, legal, and ethical issues that influence the health care profession.
- Employ proactive skills and competencies in the areas of preventive health and wellness.
- Analyze data to make good programmatic decisions.
- Synthesize the body systems and their relationship to diseases and disorders as they serve as determinants of health.

Bachelor of Science, Major in Health Sciences: 3+2 MSAT

In the 3+2 degree option, students must apply and be accepted to the **Master of Science in Athletic Training** (**MSAT**) program to complete the dual degree. Students who are not accepted to the MSAT should complete the associated BS degree. Students who complete the MSAT 3+2 dual degrees are awarded both the BS and MSAT degrees upon completion of the 3+2 degree requirements. Below are the requirements for the BS in Health Sciences: 3+2 MSAT.

Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 96 semester credit hours) and all admission requirements.

Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the prescribed 96 undergraduate semester credit hours are completed and the student has been admitted to the MSAT program.

Once a student is accepted to the graduate MSAT program (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/), students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Health Sciences degree (p. 691) to complete their BS degree.**

Accreditation

- *Sam Houston State University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).*

MSAT Graduate Catalog page (https://shsu-preview.courseleaf.com/undergraduate/colleges-academic-departments/health-sciences/population-health/bs-health-sciences-and-msat-athletic-training/)

BS in Health Sciences Catalog page (p. 691)

Code	Title	Hours
Bachelor of Science, Major in Health Science: 3+2 MSAT		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2]	4
or BIOL 2401	Human Anatomy	
BIOL 2404	Human Anatomy & Physiology II [2]	4
or BIOL 2402	Human Physiology	
CHEM 1411	General Chemistry I [2]	4
or CHEM 1406	Inorganic & Environmental Chemistry	
KINE 2115	Lifetime Health and Wellness [5]	1
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics [6]	3
or MATH 3379	Statistical Methods in Practice	
or MATH 1342	Elementary Statistics	
or STAT 3379	Statistical Methods in Practice	
PSYC 1301	Introduction To Psychology [4]	3
PSYC 3374	Development Psychology	3
Major: Foundation (27 Credit Hours) [8]		

HLTH 1360	The Fundamentals of Health Promotion and Health Careers [7]	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases [7]	3
HLTH 3350	Principles of Public Health [7]	3
HLTH 3360	Epidemiology [7]	3
Major: Prescribed Electives		
ATTR 2300	Introduction to Athletic Training	3
ATTR 3370	Prevention & Care of Injuries	3
BIOL 1406	General Biology I	4
or BIOL 2413	General Zoology	
COMS 1361	Public Speaking [5]	3
FSCN 2362	Nutrition	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
MATH 1316	Plane Trigonometry	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I [8]	4
3+2 MSAT [9, 10]		
ATTR 5140	Clinical Experiences in Athletic Training IV	1
ATTR 5210	Clinical Experiences in Athletic Training I	2
ATTR 5220	Clinical Experiences in Athletic Training II	2
ATTR 5230	Clinical Experiences in Athletic Training III	2
ATTR 5300	Injury Prevention and Protective Strategies	3
ATTR 5310	Clinical Evaluation and Assessment Fundamentals	3
ATTR 5311 & ATTR 5111	Lower Extremity Injuries and Lower Extremity Injuries Lab	4
ATTR 5312 & ATTR 5112	Upper Extremity Injuries and Upper Extremity Injuries Lab	4
ATTR 5313	Head and Facial Injuries in Sport	3
ATTR 5314	Spine and Pelvis Injuries	3
ATTR 5315	Non-Orthopedic Pathologies in Sport and Exercise	3
ATTR 5321 & ATTR 5121	Prehospital Emergency Medicine and Acute Care and Prehospital Emergency Medicine and Acute Care Lab	4
ATTR 5330 & ATTR 5130	Therapeutic Interventions I and Therapeutic Intervention I Lab	4
ATTR 5331 & ATTR 5131	Therapeutic Interventions II and Therapeutic Intervention II Lab	4
ATTR 5340	Administration in Athletic Training	3
ATTR 5450	Immersive Clinical Experiences in Athletic Training	4
HLTH 5371	Health Care Quality & Safety	3
HLTH 5378	Health Care Informatics	3
KINE 5374	Applied Research Methods in Kinesiology	3
Minor: Not Required [11,12]		
Total Hours		**154-155**

1 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science). BIOL 2403, BIOL 2404, and CHEM 1411 are required prerequisites for the MSAT program and require a grade of "C" or higher.

3 SOCI 2319 (https://shsu-curr.courseleaf.com/search/?P=SOCI%202319) is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). SOCI 2319 is a recommended (not required) prerequisite for admission to the MSAT program.

4 PSYC 1301 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). PSYC 1301 is a required prerequisite for admission to the MSAT program and requires a grade of "C" or higher.

5 COMS 1361 and KINE 2115 satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

[6] MATH 3379, STAT 3379, and MATH 1342 may be used as transfer courses for this requirement: please see a SAM Center advisor for more details.
[7] HLTH 3350, HLTH 3355, and HLTH 3360 require prerequisites of HLTH 1360 and HLTH 2391.
[8] Requires a prerequisite of MATH 1316.
[9] This course will be replaced with graduate level courses in the MSAT. See graduate level MSAT course list below.
[10] Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 96 semester credit hours) and all admission requirements.
Once a student is accepted to the graduate MSAT program (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/), students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Health Sciences degree (p. 691) to complete their BS degree.**
MSAT Graduate Catalog page (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)
BS in Health Sciences Catalog page (p. 691)
[11] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
[12] The following minor cannot be paired with this degree program: Minor in Health.

Code	Title	Hours
The courses below are included in the BS in Health Sciences degree plan and will be replaced with the following graduate level courses present in the MSAT degree plan: [8]		
HLTH 3355	United States Health Care Systems (HLTH 5378 replaces this course) [7]	3
HLTH 4393	Professional Preparation for Health Careers (HLTH 5371 replaces this course)	3
HLTH 4394	Internship Program (ATTR 5210 replaces this course)	3
Electives (3000-level or 4000-level)		
HLTH 4360	Research Methods/Statistics (KINE 5374 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5321 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5313 replaces the course)	3
HLTH 4395	Special Topics in Health (ATTR 5300 replaces this course)	3
KINE 3363	Assessment in Kinesiology (ATTR 5310 replaces this course)	3
Total Hours		**24**

Notes

The MSAT program has a minimum GPA requirement of 3.00 or higher for full regular admission. For more specific MSAT admission requirements, please see the Graduate Catalog page (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext).

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Health Sciences degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Health Sciences degree.

HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, and HLTH 4390requires prerequisites of HLTH 1360 and HLTH 2391.

HLTH 3360 (http://catalog.shsu.edu/search/?P=HLTH%203360) requires a prerequisite of HLTH 1360 and HLTH 2391 and a prerequisite of one of the following: MATH 1342 (http://catalog.shsu.edu/search/?P=MATH%201342), MATH 1370 (http://catalog.shsu.edu/search/?P=MATH%201370), MATH 3379 (http://catalog.shsu.edu/search/?P=MATH%203379), or STAT 3379 (http://catalog.shsu.edu/search/?P=STAT%203379).

HLTH 4387 (http://catalog.shsu.edu/search/?P=HLTH%204387) requires a prerequisite of HLTH 1360 and HLTH 2391 and 55 credit hours completed.

KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362) requires a prerequisite of BIOL 2401 (http://catalog.shsu.edu/search/?P=BIOL%202401) or BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and 60 credit hours.

MATH 1316 (http://catalog.shsu.edu/search/?P=MATH%201316), MATH 1410 (http://catalog.shsu.edu/search/?P=MATH%201410) or MATH 1420 (http://catalog.shsu.edu/search/?P=MATH%201420) are prerequisites for PHYS 1101 (http://catalog.shsu.edu/search/?P=PHYS%201101) and PHYS 1301 (http://catalog.shsu.edu/search/?P=PHYS%201301). A grade of "C" or higher is required for courses.

HLTH 3350, HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, andHLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391.

First Year

Fall	Hours	Spring	Hours		
Component Area IV (p. 89)[1]		3 CHEM 1411 or 1406[5]		4	
BIOL 2413 or 1406		4 ENGL 1302[2]		3	
ENGL 1301[2]		3 HLTH 2372		3	
HSTY 1301[3]		3 HSTY 1302[3]		3	
MATH 1314, 1410, or 1420[4]		3-4 MATH 1370, 3379, 1342, or 3379[6]		3	
	16-17			**16**	

Second Year

Fall	Hours	Spring	Hours		
BIOL 2403 or 2401[5]		4 BIOL 2404 or 2402[5]		4	
HLTH 1360[7]		3 HLTH 2383		3	
KINE 2115[8]		1 KINE 3362		3	
POLS 2305[9]		3 MATH 1316		3	
PSYC 1301[10]		3 POLS 2306[9]		3	
ATTR 2300		3			
	17			**16**	

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area V (p. 90)		3 COMS 1361[8]		3 Students who are accepted into the MSAT with follow this degree path; students not accepted will continue with the BS in Health Sciences.[12,13]	
ATTR 3370		3 FSCN 2362		3 ATTR 5300[13]	3
HLTH 2391[7]		3 HLTH 3350[7]		3 ATTR 5310[13]	3
KINE 3373		3 HLTH 3360[7]		3 ATTR 5321[13]	3
PHYS 1301 & PHYS 1101[11]		4 PSYC 3374		3 ATTR 5121[13]	1
	16			**15**	**10**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
ATTR 5210		2 ATTR 5220		2 ATTR 5314	3
ATTR 5311 & ATTR 5111		4 ATTR 5312 & ATTR 5112		4 ATTR 5230	2
ATTR 5330 & ATTR 5130		4 ATTR 5313		3 HLTH 5378	3
		ATTR 5331 & ATTR 5131		4 KINE 5374	3
	10			**13**	**11**

Fifth Year

Fall	Hours	Spring	Hours		
ATTR 5450		4 ATTR 5140		1	
HLTH 5371		3 ATTR 5315		3	

	ATTR 5340	3
	7	**7**

Total Hours: 154-155

1 SOCI 2319 recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). SOCI 2319 is a recommended (not required) prerequisite for admission to the MSAT program.

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science). BIOL 2403, BIOL 2404, and CHEM 1411 are required prerequisites for the MSAT program and require a grade of "C" or higher.

6 MATH 3379, STAT 3379, and MATH 1342 may be used as transfer courses for this requirement: please see a SAM Center advisor for more details.

7 HLTH 3350, HLTH 3355, and HLTH 3360 require prerequisites of HLTH 1360 and HLTH 2391.

8 COMS 1361 (https://shsu-curr.courseleaf.com/search/?P=COMS%201361) and KINE 2115 (https://shsu-curr.courseleaf.com/search/?P=KINE%202115) satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).

9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

10 PSYC 1301 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). PSYC 1301 is a required prerequisite for admission to the MSAT program and requires a grade of "C" or higher.

11 Requires a prerequisite of MATH 1316.

12 This course will be replaced with graduate level courses in the MSAT. See graduate level MSAT course list below.

13 Students planning to pursue the 3+2 MSAT option must complete the Graduate Application process and be accepted to the MSAT program. In order to apply to the 3+2 MSAT program students must complete all undergraduate degree plan requirements (minimum of 96 semester credit hours) and all admission requirements.

Once a student is accepted to the graduate MSAT program (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/), students are eligible to begin the MSAT program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate MSAT program until the 96 semester credit hours are completed. **If a student is not accepted, or does not successfully progress through graduate MSAT coursework, then the student will return to the BS in Health Sciences degree (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/population-health/bs-health-sciences/) to complete their BS degree.**

MSAT Graduate Catalog page (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/population-health/bs-health-sciences-and-msat-athletic-training/)

BS in Health Sciences Catalog page (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/population-health/bs-health-sciences/)

Code	Title	Hours
Undergraduate Course TO Graduate Course Crosswalk [12]		
HLTH 3355	United States Health Care Systems (HLTH 5378 replaces this course)	3
HLTH 4393	Professional Preparation for Health Careers (HLTH 5371 replaces this course)	3
HLTH 4394	Internship Program (ATTR 5210 replaces this course)	3
Electives (3000-level or 4000-level)		
HLTH 4360	Research Methods/Statistics (KINE 5374 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5313 replaces this course)	3
HLTH 4392	Problems in Health (ATTR 5321 replace this course)	3
HLTH 4395	Special Topics in Health (ATTR 5300 replaces this course)	3
KINE 3363	Assessment in Kinesiology (ATTR 5310 replaces this course)	3
Total Hours		**24**

Notes

The MSAT program has a minimum GPA requirement of 3.00 or higher for Regular Admission. For more specific MSAT admission requirements, please see the Graduate Catalog page (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/#admissiontext).

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum overall major GPA in all major coursework to complete the BS in Health Sciences degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Health Sciences degree.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework to complete the BS in Health Sciences degree.

HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, and HLTH 4390 requires prerequisites of HLTH 1360 and HLTH 2391.

HLTH 3360 (http://catalog.shsu.edu/search/?P=HLTH%203360) requires a prerequisite of HLTH 1360 and HLTH 2391 and a prerequisite of one of the following: MATH 1342 (http://catalog.shsu.edu/search/?P=MATH%201342), MATH 1370 (http://catalog.shsu.edu/search/?P=MATH%201370), MATH 3379 (http://catalog.shsu.edu/search/?P=MATH%203379), or STAT 3379 (http://catalog.shsu.edu/search/?P=STAT%203379).

HLTH 4387 (http://catalog.shsu.edu/search/?P=HLTH%204387) requires a prerequisite of HLTH 1360 and HLTH 2391 and 55 credit hours completed.

KINE 3362 (http://catalog.shsu.edu/search/?P=KINE%203362) requires a prerequisite of BIOL 2401 (http://catalog.shsu.edu/search/?P=BIOL%202401) or BIOL 2403 (http://catalog.shsu.edu/search/?P=BIOL%202403) and 60 credit hours.

MATH 1316 (http://catalog.shsu.edu/search/?P=MATH%201316), MATH 1410 (http://catalog.shsu.edu/search/?P=MATH%201410) or MATH 1420 (http://catalog.shsu.edu/search/?P=MATH%201420) are prerequisites for PHYS 1101 (http://catalog.shsu.edu/search/?P=PHYS%201101) and PHYS 1301 (http://catalog.shsu.edu/search/?P=PHYS%201301). A grade of "C" or higher is required for courses.

HLTH 3350, HLTH 3355, HLTH 3361, HLTH 3380, HLTH 3385, HLTH 3392, HLTH 4365, HLTH 4371, HLTH 4375, HLTH 4380, and HLTH 4390 requires a prerequisite of HLTH 1360 and HLTH 2391.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Health.

Program Prerequisites

The following prerequisite coursework is designated as either required or recommended. The required coursework must be satisfactorily completed (a grade of C or better) to be considered for regular admission to the MSAT program. The recommended coursework is optional but completed work in this area may benefit the student in their pursuit of admission to the MSAT program. Recommended prerequisite coursework that is completed at the time of program application will add additional points to the candidate acceptance rubric for the proposed degree.

MSAT Program Required Prerequisite Coursework

The following bachelor's level coursework must be completed prior to applying to the MSAT Program to be considered for full admission. Prerequisite coursework can be in progress when the application is submitted for Conditional Admission. All required coursework **must** be completed prior to starting the MSAT program and includes:

Code	Title	Hours
SHSU Course Listing: Required Program Prerequisites [1]		
BIOL 1413	General Zoology	4
or BIOL 1411	General Botany	
or BIOL 1406	General Biology I	
or BIOL 1407	General Biology II	
BIOL 2403	Human Anatomy & Physiology I	4
BIOL 2404	Human Anatomy & Physiology II	4
CHEM 1411	General Chemistry I	4
or CHEM 1406	Inorganic & Envir Chemistry	
FSCN 2362	Nutrition	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
MATH 3379	Statistical Mthods in Practice	3
or STAT 3379	Statistical Methds in Practice	
or MATH 1342	Elementary Statistics	
or MATH 1370	Intro Biomedical Statistics	
or BIOL 4374	Biostatistics	
PHYS 1301	General Phy-Mechanics & Heat	3

PSYC 1301	Introduction To Psychology	3

[1] Or equivalent.

MSAT Program Recommended Prerequisite Coursework

The recommended prerequisites for the MSAT are not required for admission to the program, but can increase the admission score if completed with a grade of **C or higher**. Students seeking admission to the SHSU MSAT program are encouraged to enroll in these courses if electives are available on a student's undergraduate degree plan.

The following bachelor's level coursework is **recommended** to be completed prior to applying to the MSAT Program:

Code	Title	Hours
SHSU Course Listing: Recommended Program Prerequisites [1]		
ATTR 2300	Introduction to Athletic Training	3
ATTR 3370	Prevention & Care of Injuries	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3350	Principles of Public Health	3
HLTH 3360	Epidemiology	3
KINE 4335	Sport and Exercise Psychology	3
KINE 4362	Biomechanical Analysis	3
SOCI 2319	Introduction To Ethnic Studies	3

The BS in Health Sciences: 3+2 MSAT Option is designed to provide graduates with the following marketable skills:

- Recognize and identify specific health and social needs of diverse populations.
- Make informed decisions relative to the political, economic, social, legal, and ethical issues that influence the health care profession.
- Employ proactive skills and competencies in the areas of preventive health and wellness.
- Analyze data to make good programmatic decisions.
- Synthesize the body systems and their relationship to diseases and disorders as they serve as determinants of health.
- Communicate and collaborate with other healthcare professions.
- Promote healthy lifestyle behaviors to minimize the risk of injury and illness.
- Implement systematic, evidence-based examinations and assessments to determine best care for active patient populations.
- Utilize best practices in immediate and emergency care situations.
- Apply therapeutic interventions, including therapeutic modalities, manual therapies, and therapeutic exercise.
- Integrate best practices of policy development, documentation practices, and basic business practices to promote optimal patient care.

Bachelor of Science, Major in Public Health

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-public-health/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Requirements: **Students enrolled in the BS in Public Health program must maintain a minimum GPA of 2.75 or higher in all areas.** This minimum GPA requirement is mandated by the Council on Education of Public Health, the accrediting organization for public health education programs. The first semester a student earns a GPA below 2.75, he/she must meet with the BS in Public Health Program Coordinator to develop a plan of study to improve their GPA. **The second semester a student earns a GPA below 2.75, she/he must declare a new major. In most cases. a student will change their major to one of the following program areas that will allow students to enter that degree with a GPA below 2.75 while also minimizing loss of previously completed credits in HLTH courses: Health Sciences, Health Care Administration, Bilingual Health Care Studies, or another area.**

Code	Title	Hours
Bachelor of Science in Public Health		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 5]	4
BIOL 2404	Human Anatomy & Physiology II [5]	4
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
FSCN 2362	Nutrition [6]	3
KINE 2115	Lifetime Health and Wellness [4]	1
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics [7]	3
PSYC 1301	Introduction To Psychology [3]	3
Major: Foundation		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers (Freshman) [8]	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases [8]	3
HLTH 3350	Principles of Public Health [8]	3
HLTH 3355	United States Health Care Systems [8, 9]	3
HLTH 3360	Epidemiology	3
HLTH 3361	Health Planning & Evaluation [8]	3
HLTH 3392	Health Communication and Literacy [8]	3
HLTH 4360	Research Methods/Statistics [8]	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health	3
HLTH 4393	Professional Preparation for Health Careers [8,10]	3
HLTH 4394	Internship Program [8,10]	3
Major: Prescribed Electives (26 SCH) OR Undergraduate Certificate in Communication for Health and Social Care Professionals [11]		**26**
Undegraduate Certificate Communication for Health and Social Care Professionals.		
COMS 3375	Strategic Organizational Communication	

COMS 3386	Learning to Listen: A Key Communication Competency
COMS 3391	Interpersonal Health Communication
COMS 3392	Risk Communication
COMS 3393	Environmental Communication
HLTH 3355	United States Health Care Systems [8,9]
Prescribed Electives (11 SCH) [12, 13]	
OR	
Major: Prescribed Electives	
Select 26 hours (9 hours must be 3000 or 4000 level) from the below Prescribed Elective Course List. [13]	
Minor: Not Required [14, 15]	
Total Hours	**120**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
6 FSCN 1367 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
7 MATH 1342 or MATH 3379 may be used as a transfer course for this requirement; please see SAM Center Advisor for more details.
8 HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350 , HLTH 3355, HLTH 3361, HLTH 3385, HLTH 3392, HLTH 4117, HLTH 4360, HLTH 4363, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4392, HLTH 4393, HLTH 4394, and HLTH 4395.
9 HLTH 3355 satisfies the requirement for both the Major and the Undergraduate Certificate, if Undergraduate Certificate option is chosen.
10 Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.
11 Students may select from the Undergraduate Certificate in Communication for Health and Social Care Professionals **+ 11 SCH** of Prescribed Electives OR 26 hours of Prescribed Electives. Please select from the list of Prescribed Electives and consult with your advisor on appropriate course choices. Please note that HLTH 3355 double dips in both the Major: Foundation and Undergraduate Certificate areas.
12 Students select **11 SCH** from the below listing of Prescribed Electives.
13 See, below Prescribed Elective course list.
14 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
15 The following minor cannot be paired with this degree program: Minor in Health.

Code	Title	Hours
Prescribed Elective Courses [12]		
BIOL 1401	Environmental Science	4
BIOL 2420	Introduction to Applied Microbiology	4
ENGL 3330	Introduction to Technical Writing	3
FSCN 3339	Community Nutrition	3
HLTH 1366	Lifestyle and Wellness	3
HLTH 2372	Health & Medical Terminology	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3385	Safety Education [8]	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum [8]	1
HLTH 4360	Research Methods/Statistics [8]	3
HLTH 4363	Interventions for Wellness [8]	3
HLTH 4365	Health Care Policy [8]	3
HLTH 4366	Health Informatics	3
HLTH 4367	Economics for Health Managers [8]	3
HLTH 4371	Patient Navigation [8]	3
HLTH 4375	Health Laws and Ethics [8]	3
HLTH 4392	Problems in Health [8]	3
HLTH 4394	Internship Program [8,9]	3
HLTH 4395	Special Topics in Health [8]	3
KINE 2330	First Aid and CPR - American Red Cross	3

KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
KINE 4361	Managing Health Promotion in the Workplace	3
KINE 4365	Directing Wellness Programs	3
MATH 1316	Plane Trigonometry	3
MCPA 4381	Social Marketing for Public Relations and Advertising	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1301	General Physics-Mechanics and Heat	3
POLS 3335	Political Ethnic Minorities and Gender	3
POLS 3366	Public Administration	3
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3374	Development Psychology	3
SOCI 1301	Introduction to Sociology	3
SOCI 3365	Sociology Of Health & Illness	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4338	Social Gerontology	3
VCST 4338	Child Abuse And Neglect	3

Or other courses approved by Department

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.75 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Consult current University catalog for questions concerning transfer courses and residency requirements.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfies the Core Curriculum requirement for Component Area I (Communications).

FSCN 3339 requires a prerequisite of FSCN 3380.

HLTH 3350, HLTH 3361, HLTH 4387, requires 55 credit hours completed and a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 3355, HLTH 3361, HLTH 3385, HLTH 3392, HLTH 4117, HLTH 4360, HLTH 4363, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4392, and HLTH 4395 require a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 3360 requires a prerequisite of MATH 1342, MATH 1370, MATH 3379 OR STAT 3379 and HLTH 1360 and HLTH 2391.

HLTH 4360, HLTH 4363, HLTH 4365, HLTH 4380, HLTH 4390, KINE 3373 require Junior standing and a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4375 requires prerequisites of HLTH 1360, HLTH 2391, HLTH 3355, and Senior standing.

HLTH 4393 requires a prerequisite of the completion of 12 hours ofHLTH 1360, and HLTH 2391.

HLTH 4394 requires a prerequisite of HLTH 1360 and HLTH 2391 and HLTH 4393 with a C or better.

KINE 3362 requires prerequisites of BIOL 2401 OR BIOL 2403; KINE 1331 OR ATTR 2300; and 45 credit hours.

MATH 3379 requires 3 hours of completed coursework in College Math.

MCPA 4381 requires MCOM Instructor approval.

PHYS 1301 has a prerequisite of MATH 1410 OR MATH 1316 or MATH 1420 with a grade of “C” or better for the course. MATH 1316 and MATH 1410 satisfy the 3 hours of Math required for the Core Competency Area II.

POLS 3366 requires a prerequisite of POLS 2305.

PSYC 3331 requires 3 hours of completed coursework in Psychology.

PSYC 3333 requires 3 hours of completed coursework in Psychology and 4 hours of completed coursework in Biology or permission of the instructor.

SOCI 3365 requires a prerequisite of SOCI 1301 OR SOCI 2319 which satisfies 3 hours of the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

SOCI 4338 requires a prerequisite of SOCI 1301 OR SOCI 2319 which satisfies 3 hours of the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-public-health/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 2403[1, 2]		4 Component Area IV (p. 89)	3
CHEM 1406 or 1411[1]		4 ENGL 1302[3]	3
ENGL 1301[3]		3 HSTY 1301[6]	3
KINE 2115[4]		1 MATH 1370	3
MATH 1314, 1410, or 1420[5]		3	
	15		**12**

Second Year

Fall	Hours	Spring	Hours
BIOL 2404[2]		4 Component Area V (p. 90)	3
HSTY 1302[6]		3 Component Area IX (p. 91)	3
HLTH 1360[8]		3 FSCN 2362[11]	3
HLTH 2391[8]		3 HLTH 2383	3
POLS 2305[9]		3 POLS 2306[9]	3
PSYC 1301[10]		3	
	19		**15**

Third Year

Fall	Hours	Spring	Hours
HLTH 3350[8]		3 HLTH 3361[8]	3
HLTH 3355[8,12]		3 HLTH 4380	3
HLTH 3360		3 HLTH 4387	3
HLTH 3392[8]		3 HLTH 4390	3
Prescribed Electives or UG Cert Courses[13, 14]		3 HLTH 4393[8,15]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
HLTH 4360[8]		3 HLTH 4394[8,15]	3
Prescribed Electives or UG Cert Courses[13, 14]		12 Prescribed Electives or UG Cert Courses[13, 14]	11
	15		**14**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 BIOL 2401 and BIOL 2402 may be used as transfer courses for this requirement; please see a SAM Center advisor for more details.
3 Satisfies Core Curriculum requirement for Component Area I (Communications).
4 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
6 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
7 MATH 1342 OR MATH 3379 may be used as a transfer course for this requirement; please see a SAM Center Advisor for more details.
8 HLTH 1360 and HLTH 2391 are prerequisites for the following courses: HLTH 3350, HLTH 3355, HLTH 3361, HLTH 3385, HLTH 3392, HLTH 4117, HLTH 4360, HLTH 4363, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4392, HLTH 4393, HLTH 4394, and HLTH 4395.
9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
10 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
11 FSCN 1367 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
12 HLTH 3355 satisfies the requirement for both the Major and the Undergraduate Certificate, if Undergraduate Certificate option is chosen.

[13] Students may select from the Undergraduate Certificate for Health and Social Care Professionals + 11 hours of Prescribed Electives OR 26 hours of Prescribed Electives. Please select from the list of Prescribed Electives and consult with your advisor on appropriate course choices.
[14] See, Prescribed Electives course listing below.
[15] Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.

Code	Title	Hours
Prescribed Electives [13]		
BIOL 1401	Environmental Science	4
BIOL 2420	Introduction to Applied Microbiology	4
ENGL 3330	Introduction to Technical Writing	3
FSCN 3339	Community Nutrition	3
HLTH 1366	Lifestyle and Wellness	3
HLTH 2372	Health & Medical Terminology	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3385	Safety Education [8]	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum [8]	1
HLTH 4360	Research Methods/Statistics [8]	3
HLTH 4363	Interventions for Wellness [8]	3
HLTH 4365	Health Care Policy [8]	3
HLTH 4366	Health Informatics	3
HLTH 4367	Economics for Health Managers [8]	3
HLTH 4371	Patient Navigation [8]	3
HLTH 4375	Health Laws and Ethics [8]	3
HLTH 4392	Problems in Health [8]	3
HLTH 4394	Internship Program [8,13]	3
HLTH 4395	Special Topics in Health [8]	3
KINE 2330	First Aid and CPR - American Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
KINE 4361	Managing Health Promotion in the Workplace	3
KINE 4365	Directing Wellness Programs	3
MATH 1316	Plane Trigonometry	3
MCPA 4381	Social Marketing for Public Relations and Advertising	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1301	General Physics-Mechanics and Heat	3
POLS 3335	Political Ethnic Minorities and Gender	3
POLS 3366	Public Administration	3
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3374	Development Psychology	3
SOCI 1301	Introduction to Sociology	3
SOCI 3365	Sociology Of Health & Illness	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4338	Social Gerontology	3
VCST 4338	Child Abuse And Neglect	3

Notes

Students must earn a 2.75 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.75 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Consult current University catalog for questions concerning transfer courses and residency requirements.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfies the Core Curriculum requirement for Component Area I (Communications).

FSCN 3339 requires a prerequisite of FSCN 3380.

HLTH 3350, HLTH 3361, HLTH 4387, requires 55 credit hours completed and a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 3355, HLTH 3361, HLTH 3385, HLTH 3392, HLTH 4117, HLTH 4360, HLTH 4363, HLTH 4365, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4392, and HLTH 4395 require a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 3360 requires a prerequisite of MATH 1342, MATH 1370, MATH 3379 OR STAT 3379 and HLTH 1360 and HLTH 2391.

HLTH 4360, HLTH 4363, HLTH 4365, HLTH 4380, HLTH 4390, KINE 3373 require Junior standing and a prerequisite of HLTH 1360 and HLTH 2391.

HLTH 4375 requires prerequisites of HLTH 1360, HLTH 2391, HLTH 3355, and Senior standing.

HLTH 4393 requires a prerequisite of the completion of 12 hours ofHLTH 1360, and HLTH 2391.

HLTH 4394 requires a prerequisite of HLTH 1360 and HLTH 2391 and HLTH 4393 with a C or better.

KINE 3362 requires prerequisites of BIOL 2401 OR BIOL 2403; KINE 1331 OR ATTR 2300; and 45 credit hours.

MATH 3379 requires 3 hours of completed coursework in College Math.

MCPA 4381 requires MCOM Instructor approval.

PHYS 1301 has a prerequisite of MATH 1410 OR MATH 1316 or MATH 1420 with a grade of "C" or better for the course. MATH 1316 and MATH 1410 satisfy the 3 hours of Math required for the Core Competency Area II.

POLS 3366 requires a prerequisite of POLS 2305.

PSYC 3331 requires 3 hours of completed coursework in Psychology.

PSYC 3333 requires 3 hours of completed coursework in Psychology and 4 hours of completed coursework in Biology or permission of the instructor.

SOCI 3365 requires a prerequisite of SOCI 1301 OR SOCI 2319 which satisfies 3 hours of the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

SOCI 4338 requires a prerequisite of SOCI 1301 OR SOCI 2319 which satisfies 3 hours of the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Students may select from the Undergraduate Certificate for Health and Social Care Professionals + 11 hours of Prescribed Electives OR 26 hours of Prescribed Electives. Please select from the list of Prescribed Electives and consult with your advisor on appropriate course choices.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Public Health is designed to provide graduates with the following marketable skills:

- Participate in a proactive manner the day-to-day tasks of public health organizations.
- Conduct data collection and analysis to investigate public health issues.
- Participate in public health fieldwork requiring cultural competency skills.
- Develop public health program plans to meet the needs of at-risk populations.
- Act as a resource specialist for public health outreach.
- Demonstrate effective public health communications to diverse populations.

These competencies are outlined in the Core Competencies for Public Health Professionals *(*http://www.phf.org/resourcestools/Documents/Core_Competencies_for_Public_Health_Professionals_2014June.pdf*).*

Bachelor of Science, Major in Public Health: 4+1 MPH

The accelerated Bachelor of Science in Public Health: 4+1 Master Public Health degree program option is an innovative program that allows undergraduate students to complete both Baccalaureate and Master's degrees in five rather than six years. The degree is also market driven with flexible scheduling that prepares students to enter the public health workforce in an expedited manner.

The 4+1 MPH program includes 120 credit hours for the BS degree (108 hours of undergraduate courses + 12 hours of graduate level courses) AND 30 additional hours of graduate level courses to obtain a combined BS and MPH degree. Students need to complete a minimum of 90 hours in their undergraduate program to apply for the 4+1 program. Accepted students can start taking graduate level courses in their Senior year of their undergraduate programs.

The criteria for admission into the accelerated 4+1 MPH degree program are detailed below:

- Successfully have completed a minimum of 90 hours of undergraduate courses in a degree that is complementary to the field of public health.
- Earned a GPA of 3.00 or greater in major courses.
- Complete the application requirements for the MPH program. The Admissions Application is submitted online through Apply Texas (https://www.applytexas.org/).
- Application Fee.
- Three letters of recommendation (from professors and/or employers).
- A written summary (minimum of 500 words) on why you seek an MPH and how you plan to use the degree.
- A resume (to include all professional, employment, and volunteer activities).
- Participate in an interview with the MPH admissions committee.

Code	Title	Hours
Bachelor of Science, Major in Public Health: 4+1 MPH		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2]	4
BIOL 2404	Human Anatomy & Physiology II [2]	4
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
FSCN 2362	Nutrition	3
KINE 2115	Lifetime Health and Wellness [4]	1
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics	3
PSYC 1301	Introduction To Psychology [3]	3
Major: Foundation		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers	3
HLTH 2383	Multicultural Health Issues	3
HLTH 2391	Human Diseases	3
HLTH 3350	Principles of Public Health	3
HLTH 3392	Health Communication and Literacy	3
HLTH 4360	Research Methods/Statistics [5]	3
HLTH 4380	Global Health	3

HLTH 4387	Community Health	3
HLTH 4393	Professional Preparation for Health Careers	3
HLTH 4394	Internship Program [5]	3
Major: Prescribed Electives		
Bachelor of Science Prescribed Electives [6]		26
4+1 MPH [7]		
HLTH 5318	Current Topics in Environmental Health	3
HLTH 5353	Epidemiology	3
HLTH 5355	Health Services Administration	3
HLTH 5361	Social and Behavioral Determinants of Public Health	3
HLTH 5376	Public Health Biostatistics	3
HLTH 6352	Public Health Grant Writing	3
HLTH 6396	Health Program Planning/ Pre-Capstone	3
HLTH 6397	Public Health Capstone / Practicum	3
Required Concentration Courses		
Choose one of the following Concentrations: [8]		12
Global Health and Social Justice		
HLTH 5350	Public Health and Social Justice	
HLTH 5351	Immigrant and Refugee Health	
HLTH 5380	Global Health Partnerships [5]	
HLTH 6365	Health Care Policy	
Health Education and Promotion		
HLTH 5331	Foundations of Community Health	
HLTH 5332	Human Ecology	
HLTH 5360	Communication Theory and Practice for Health Professionals	
HLTH 5374	Research Seminar	
Thesis OR Prescribed Electives		**6**
Thesis		
HLTH 6098	Thesis I	
HLTH 6099	Thesis II	
MPH Prescribed Electives		
Master of Public Health Prescribed Electives [9]		
Total Hours		**150**

1. Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4. Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5. Courses listed under two requirements may only be taken once and may only fulfill one requirement.
6. See BS Prescribed Electives course listing below.
7. Students need to complete a minimum of 90 hours in their undergraduate program to apply for the 4+1 MPH program.
8. All required Concentration courses (12 SCH) must be taken from one concentration -- either Global Health and Social Justice OR Health Education and Promotion.
9. See MPH Prescribed Electives course listing below.

Code	Title	Hours
Undergraduate/Graduate Course Crosswalk		
The undergraduate course requirements identified below are satisfied by the corresponding (row) graduate courses identified below.		
Undergraduate Level Courses		
HLTH 3355	United States Health Care Systems (satisfied by HLTH 5355)	3
HLTH 3360	Epidemiology (satisfied by HLTH 5353)	3
HLTH 3361	Health Planning & Evaluation (satisfied by HLTH 5361)	3
HLTH 4390	Environmental Health (satisfied by HLTH 5318)	3
Graduate Level Course Replacements		

HLTH 5355	Health Services Administration	3
HLTH 5353	Epidemiology	3
HLTH 5361	Social and Behavioral Determinants of Public Health	3
HLTH 5318	Current Topics in Environmental Health	3

Code	Title	Hours
BS Prescribed Electives [6]		
Select 26 hours of the following (9 hours must be 3000 or 4000 level):		
BIOL 1401	Environmental Science	4
BIOL 2420	Introduction to Applied Microbiology	4
ENGL 3330	Introduction to Technical Writing	3
FSCN 3339	Community Nutrition	3
HLTH 1366	Lifestyle and Wellness	3
HLTH 2372	Health & Medical Terminology	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3385	Safety Education	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum	1
HLTH 4360	Research Methods/Statistics [5]	3
HLTH 4363	Interventions for Wellness	3
HLTH 4365	Health Care Policy	3
HLTH 4366	Health Informatics	3
HLTH 4367	Economics for Health Managers	3
HLTH 4371	Patient Navigation	3
HLTH 4375	Health Laws and Ethics	3
HLTH 4392	Problems in Health	3
HLTH 4394	Internship Program [5]	3
HLTH 4395	Special Topics in Health	3
KINE 2330	First Aid and CPR - American Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
KINE 4361	Managing Health Promotion in the Workplace	3
KINE 4365	Directing Wellness Programs	3
MATH 1316	Plane Trigonometry	3
MCPA 4381	Social Marketing for Public Relations and Advertising	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1301	General Physics-Mechanics and Heat	3
POLS 3335	Political Ethnic Minorities and Gender	3
POLS 3366	Public Administration	3
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3374	Development Psychology	3
SOCI 1301	Introduction to Sociology	3
SOCI 3365	Sociology Of Health & Illness	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4338	Social Gerontology	3
VCST 4338	Child Abuse And Neglect	3
Or other courses approved by Department		

Code	Title	Hours
MPH Prescribed Electives [8]		
Choose two courses from the appropriate Concentration Prescribed Electives course lists below:		
Global Health and Social Justice		

HLTH 5317	Case Studies in Occupational Epidemiology	3
HLTH 5373	Risk Management in Health Care Organizations	3
HLTH 5378	Health Care Informatics	3
HLTH 5380	Global Health Partnerships [5]	3
HLTH 6371	Advanced Concepts in Health Care Quality	3
SCST 5335	Global Perspectives in Homeland Security	3
SOCI 5338	Sociology of Disasters	3
SOCI 5355	Seminar in Social Inequality	3
Graduate level courses in related disciplines approved by the Graduate Program Coordinator		3-6
Health Education and Promotion		
HLTH 5333	Colloquium in Human Sexuality	3
HLTH 5334	Colloquium in Use and Abuse of Drugs	3
HLTH 5338	Colloquium in Consumer Health Education	3
HLTH 5350	Public Health and Social Justice	3
HLTH 5351	Immigrant and Refugee Health	3
HLTH 5363	Management and Leadership for Health Professionals	3
HLTH 5365	Aging and Health Promotion	3
HLTH 5378	Health Care Informatics	3
HLTH 5380	Global Health Partnerships	3
HLTH 6365	Health Care Policy	3
SOCI 5322	Seminar In Medical Sociology	3
Graduate level courses in related disciplines approved by the Graduate Program Coordinator		3-6

Notes

Students must maintain a minimum GPA of 3.00 to remain in the 4+1 MPH program.

Students must earn a 2.75 minimum overall GPA in all coursework to complete the BS in Public Health degree.

Students must meet a 2.75 minimum overall major GPA in all major coursework to complete the BS in Public Health degree.

Students must earn a 2.75 minimum SHSU GPA in all coursework to complete the BS in Public Health degree.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework to complete the BS in Public Health degree.

The 4+1 MPH program includes 120 credit hours for the BS degree (108 hours of undergraduate courses + 12 hours of graduate level courses) AND 30 additional hours of graduate level courses to obtain a combined BS and MPH degree.

Students need to complete a minimum of 90 hours in their undergraduate program to apply for the 4+1 program.

Accepted students can start taking graduate level courses in their Senior year of their undergraduate programs.

Students will enroll in HLTH 6396 the first semester of year four and enroll in HLTH 6397 in Spring of year five.

Thesis I and Thesis II replace the Prescribed Electives in the MPH degree plan.

Courses listed under two requirements may only be taken once and may only fulfill one requirement.

First Year

Fall	Hours	Spring	Hours
BIOL 2403[1]		4 Component Area IV (p. 89)	3
CHEM 1406 or 1411[1]		4 ENGL 1302[2]	3
ENGL 1301[2]		3 HSTY 1301[5]	3
KINE 2115[3]		1 HLTH 1360	3
MATH 1314, 1410, or 1420[4]		3 MATH 1370	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
BIOL 2404[1]	4	Component Area IX (p. 91)	3
HSTY 1302[5]	3	BS Prescribed Electives[8]	3
HLTH 2391	3	FSCN 2362	3
POLS 2305[6]	3	HLTH 2383	3
PSYC 1301[7]	3	POLS 2306[6]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area V (p. 90)	3	BS Prescribed Electives[8]	12	BS Prescribed Electives[8]	8
BS Prescribed Electives[8]	3	HLTH 4360[9]	3	HLTH 4394[9]	3
HLTH 3350	3	HLTH 4393	3		
HLTH 3392	3				
HLTH 4380	3				
HLTH 4387	3				
	18		**18**		**11**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
HLTH 5355	3	HLTH 5318	3	Concentration Course 1[10]	3
HLTH 5361	3	HLTH 5353	3	Thesis I or MPH Prescribed Electives[11, 12]	3
HLTH 6396	3	HLTH 5376	3		
	9		**9**		**6**

Fifth Year

Fall	Hours	Spring	Hours
Concentration Course 2[10]	3	Concentration Course 3[10]	3
HLTH 6352	3	Concentration Course 4[10]	3
Thesis II or MPH Prescribed Electives[11, 12]	3	HLTH 6397	3
	9		**9**

Total Hours: 150

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).
8 See BS Prescribed Electives course listing below.
9 Courses listed under two requirements may only be taken once and may only fulfill one requirement.
10 See Concentration course listing below.
11 See MPH Prescribed Electives course listing below.
12 HLTH 6098 (Thesis I) and HLTH 6099 (Thesis II) replace the MPH Prescribed Electives in the MPH degree plan.

Code	Title	Hours
Undergraduate/Graduate Course Crosswalk		
The undergraduate courses identified below are being replaced by the corresponding (row) graduate courses identified below.		
Undergraduate Level Courses		
HLTH 3355	United States Health Care Systems	3
HLTH 3360	Epidemiology	3
HLTH 3361	Health Planning & Evaluation	3
HLTH 4390	Environmental Health	3
Graduate Level Course Replacements		
HLTH 5355	Health Services Administration	3
HLTH 5353	Epidemiology	3
HLTH 5361	Social and Behavioral Determinants of Public Health	3
HLTH 5318	Current Topics in Environmental Health	3

Code	Title	Hours
BS Prescribed Electives [8]		
Select 26 hours of the following (9 hours must be 3000 or 4000 level):		
BIOL 1401	Environmental Science	4
BIOL 2420	Introduction to Applied Microbiology	4
ENGL 3330	Introduction to Technical Writing	3
FSCN 3339	Community Nutrition	3
HLTH 1366	Lifestyle and Wellness	3
HLTH 2372	Health & Medical Terminology	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3385	Safety Education	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum	1
HLTH 4360	Research Methods/Statistics [9]	3
HLTH 4363	Interventions for Wellness	3
HLTH 4365	Health Care Policy	3
HLTH 4366	Health Informatics	3
HLTH 4367	Economics for Health Managers	3
HLTH 4371	Patient Navigation	3
HLTH 4375	Health Laws and Ethics	3
HLTH 4392	Problems in Health	3
HLTH 4394	Internship Program [9]	3
HLTH 4395	Special Topics in Health	3
KINE 2330	First Aid and CPR - American Red Cross	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
KINE 4361	Managing Health Promotion in the Workplace	3
KINE 4365	Directing Wellness Programs	3
MATH 1316	Plane Trigonometry	3
MCPA 4381	Social Marketing for Public Relations and Advertising	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1301	General Physics-Mechanics and Heat	3
POLS 3335	Political Ethnic Minorities and Gender	3
POLS 3336	The Presidency and Executives	3
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
PSYC 3374	Development Psychology	3
SOCI 1301	Introduction to Sociology	3
SOCI 3365	Sociology Of Health & Illness	3

SOCI 4334	Sociology Of Disaster	3
SOCI 4338	Social Gerontology	3
VCST 4338	Child Abuse And Neglect	3
Or other courses approved by Department		

Code	Title	Hours
Required Concentration Courses: Global Health and Social Justice [10]		
HLTH 5350	Public Health and Social Justice	3
HLTH 5351	Immigrant and Refugee Health	3
HLTH 5380	Global Health Partnerships [9]	3
HLTH 6365	Health Care Policy	3
Total Hours		**12**

Code	Title	Hours
Required Concentration Courses: Health Education and Promotion [10]		
HLTH 5331	Foundations of Community Health	3
HLTH 5332	Human Ecology	3
HLTH 5360	Communication Theory and Practice for Health Professionals	3
HLTH 5374	Research Seminar	3
Total Hours		**12**

Code	Title	Hours
MPH Prescribed Electives [11]		
Choose two courses from the appropriate Concentration Prescribed Electives course lists below:		
Global Health and Social Justice		
HLTH 5317	Case Studies in Occupational Epidemiology	3
HLTH 5373	Risk Management in Health Care Organizations	3
HLTH 5378	Health Care Informatics	3
HLTH 5380	Global Health Partnerships [9]	3
HLTH 6371	Advanced Concepts in Health Care Quality	3
SCST 5335	Global Perspectives in Homeland Security	3
SOCI 5338	Sociology of Disasters	3
SOCI 5355	Seminar in Social Inequality	3
Graduate level courses in related disciplines approved by the Graduate Program Coordinator		3-6
Health Education and Promotion		
HLTH 5333	Colloquium in Human Sexuality	3
HLTH 5334	Colloquium in Use and Abuse of Drugs	3
HLTH 5338	Colloquium in Consumer Health Education	3
HLTH 5350	Public Health and Social Justice	3
HLTH 5351	Immigrant and Refugee Health	3
HLTH 5363	Management and Leadership for Health Professionals	3
HLTH 5365	Aging and Health Promotion	3
HLTH 5378	Health Care Informatics	3
HLTH 5380	Global Health Partnerships	3
HLTH 6365	Health Care Policy	3
SOCI 5322	Seminar In Medical Sociology	3
Graduate level courses in related disciplines approved by the Graduate Program Coordinator		3-6

Notes

Students must maintain a minimum GPA of 3.00 to remain in the 4+1 MPH program.

Students must earn a 2.75 minimum overall GPA in all coursework to complete the BS in Public Health degree.

Students must meet a 2.75 minimum overall major GPA in all major coursework to complete the BS in Public Health degree.

Students must earn a 2.75 minimum SHSU GPA in all coursework to complete the BS in Public Health degree.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework to complete the BS in Public Health degree.

The 4+1 MPH program includes 120 credit hours for the BS degree (108 hours of undergraduate courses + 12 hours of graduate level courses) AND 30 additional hours of graduate level courses to obtain a combined BS and MPH degree.

Students need to complete a minimum of 90 hours in their undergraduate program to apply for the 4+1 program.

Accepted students can start taking graduate level courses in their Senior year of their undergraduate programs.

Students will enroll in HLTH 6396 the first semester of year four and enroll in HLTH 6397 in Spring of year five.

Thesis I and Thesis II replace the Prescribed Electives in the MPH degree plan.

Courses listed under two requirements may only be taken once and may only fulfill one requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Public Health: 4+1 MPH is designed to provide graduates with the following marketable skills:

- Design a population-based policy, program, project, grant, and/or intervention in the field of Public Health.
- Apply epidemiological methods to settings and situations in public health practice.
- Assess population needs, assets, and capacities that affect communities' health that employ awareness of cultural values.
- Advocate for political, social, or economic policies and programs that will improve health in diverse populations.
- Interpret results of data analysis for public health research, policy, or practice.
- Compare the organization, structure, and function of health care, public health, and regulatory systems across national and international settings.
- Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.
- Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes.

Minor in Health

A **Minor in Health** serves as an excellent support field for many majors. The minor consists of 21 hours in health including HLTH 1360, HLTH 1366, HLTH 2391, and additional hours from health courses with at least 6 of those hours advanced. If an internship in the minor is desired, students must include HLTH 4393 and HLTH 4394 in their course selections.

Non-Health University Majors that may select a Health Minor include: Business, Communication, Criminal Justice, Education, History, Kinesiology, Psychology, Sociology, and others.

The health minor may also be selected as one of the three minors required of the Bachelor of Liberal Studies degree and may also be combined with an Associate Degree in Allied Health for a Bachelor of Applied Arts and Sciences Degree. Interested students should see the advisors for the B.L.S or B.A.A.S degrees for specific degree requirements.

Code	Title	Hours
Minor in Health		
Degree Specific Requirements		**9**
HLTH 1360	The Fundamentals of Health Promotion and Health Careers	
HLTH 1366	Lifestyle and Wellness	
HLTH 2391	Human Diseases	
Minor Prescribed Electives		
Select 12 semester credit hours from the following (6 credit hours must be 3000-level or 4000-level courses taken at SHSU:		12
HLTH 2372	Health & Medical Terminology	
HLTH 2383	Multicultural Health Issues	
HLTH 3350	Principles of Public Health	
HLTH 3355	United States Health Care Systems	
HLTH 3361	Health Planning & Evaluation	
HLTH 3380	Drug Use and Abuse	
HLTH 3385	Safety Education	
HLTH 3390	Family Life & Sex Education	
HLTH 3392	Health Communication and Literacy	
HLTH 4365	Health Care Policy	
HLTH 4371	Patient Navigation	
HLTH 4375	Health Laws and Ethics	
HLTH 4380	Global Health	
HLTH 4390	Environmental Health	
HLTH 4393	Professional Preparation for Health Careers (Required for HLTH 4394)	
HLTH 4394	Internship Program (Will be health related only)	
KINE 4361	Managing Health Promotion in the Workplace	
KINE 4365	Directing Wellness Programs	
MCPA 4381	Social Marketing for Public Relations and Advertising	
Total Hours		**21**

Notes

HLTH 4365, HLTH 4380, and HLTH 4390 require Junior Standing and prerequisites of HLTH 1360 and HLTH 2391.

HLTH 4371 requires prerequisites of HLTH 1360, HLTH 2391 and Senior Standing.

HLTH 4375 requires prerequisites of HLTH 1360, HLTH 2391, HLTH 3355 and Senior Standing

HLTH 4393 requires a prerequisite of HLTH 1360, HLTH 2391, HLTH 3350 and the completion of 12 hours of HLTH coursework.

HLTH 4394 requires a prerequisite of HLTH 1360, HLTH 2391, HLTH 4393 with a "C" or better.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

HLTH 3361 requires a prerequisite HLTH 1360, HLTH 2391, and the completion of 55 hours.

HLTH 3350, HLTH 3355 HLTH 3361, HLTH 3392, HLTH 4380, and HLTH 4390 require prerequisites of HLTH 1360 and HLTH 2391.

School of Nursing

Director: Dr. Devon Berry (devonmberry@shsu.edu)
Phone: 936-202-5116

Assistant Director: Dr. Monique Huntley (mch067@shsu.edu)
Phone: 936-202-5133

Assistant Director: Dr. Desha Johnson-Makiya (dxj016@shsu.edu)
Phone:936-202-5128

Assistant Director: Ms. Brittany Tower (bxt043@shsu.edu)
Phone: 936-202-5109

Website: School of Nursing (http://www.shsu.edu/academics/nursing/)

The School of Nursing (SON) currently has three programs, all leading to the Bachelor of Science in Nursing degree (BSN). The programs are BSN (pre-licensure), RN to BSN (post-RN licensure), and LVN to BSN (post-LVN licensure).

Vision Statement

Prepared for practice. Partnered for success. Privileged to serve.

Mission

We transform healthcare education by integrating innovative learning experiences with a student-centric approach and advance knowledge through scholarly inquiry. We cultivate a workforce of nursing professionals who improve the health and healthcare disparities of our local, state, national, and global community.

Program Outcomes for Graduates

1. Integrate knowledge from liberal arts studies and nursing science to practice professional nursing in a holistic caring manner.
2. Develop, implement, and evaluate safe quality patient care through collaboration with patients and members of the inter-professional healthcare delivery team in various healthcare settings.
3. Demonstrate ethical accountability and legal responsibilities using cultural parameters and professional nursing standards of practice and care in order to provide care to individuals, families, groups, and populations.
4. Use therapeutic communication in formal and informal interaction with patients, families, groups, colleagues, and other members of the healthcare team in the delivery of nursing care.
5. Demonstrate professional leadership and management skills while implementing safety principles in the delivery of nursing care.
6. Provide safe patient care using evidence-based practice and clinical reasoning.
7. Advocate for clients across the lifespan and for the nursing profession while incorporating dynamic healthcare system practices, health policies, and global healthcare factors.
8. Demonstrate accountability for lifelong learning and professional growth.
9. Demonstrate competency with technology and information management in the delivery of safe care, while maintaining confidentiality and protecting patient rights.
10. Collaborate with other professionals on the healthcare team to provide health promotion and disease, and injury prevention across the lifespan for individuals, families, groups, and populations.

Highlights

The School of Nursing offers a Bachelor of Science in Nursing degree. Since beginning in January 2011, the upper division program is fully approved by the Texas Board of Nursing (http://bon.texas.gov) and accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org/) (CCNE); 655 K Street, NW, Suite 750; Washington, DC 20001; 202-887-6791. The NCLEX first-time pass rate consistently exceeds that of the state and nation. Graduates are sought for positions regionally and statewide. Many are employed in high acuity areas and enrolled in nurse internships within six months of graduation. The faculty include doctoral prepared and advanced practice nurses, and those engaged in active clinical practice which enhances the educational environment.

Program Specific Requirements

BSN (Pre-licensure program)

Process for Nursing Program Admission (https://www.shsu.edu/academics/health-sciences/nursing/students/admissions-criteria.html)

1. Apply to SHSU (https://www.shsu.edu/admissions/) through Undergraduate Admissions, for the semester you wish to begin the Nursing program.
2. Submit your application to the Nursing Program (https://www.shsu.edu/academics/health-sciences/nursing/students/application.html) via Nursing CAS for the semester you wish to begin the School of Nursing. Incomplete applications will result in the applicant being disqualified.

3. Take the Test of Essential Academic Skills (TEAS) (https://www.atitesting.com/home.aspx). Students will submit one TEAS Individual Performance Profile via Nursing CAS during the application. (The TEAS is not required for the RN to BSN program.)
4. Review immunization requirements listed on the School of Nursing website.

Students must complete 30 credit hours with a minimum 3.0 GPA and no grade less than a C, prior to making application to the School of Nursing. At least 20 credit hours must be from the nursing field of study below. See School of Nursing website for more detailed information.

Code	Title	Hours
Required Courses		
BIOL 2403	Human Anatomy & Physiology I	4
BIOL 2404	Human Anatomy & Physiology II	4
BIOL 2420	Introduction to Applied Microbiology	4
CHEM 1406	Inorganic & Environmental Chemistry	4
or CHEM 1411	General Chemistry I	
FSCN 2362	Nutrition	3
MATH 1370	Introduction to Biomedical Statistics	3
or MATH 1342	Elementary Statistics	
PSYC 1301	Introduction To Psychology	3
PSYC 3374	Development Psychology	3
Additional Texas Core Curriculum Requirements		3
Total Hours		**31**

All natural science courses must be completed within 7 years of application to the School of Nursing. CHEM 1406 is preferred.

Admission consideration to the School of Nursing requires an overall GPA of 3.0 in all degree requirements and a 3.0 GPA in all nursing field of study courses. All grades must be a 'C' or better.

Students must score a minimum of 70 on the ATI-TEAS for admission consideration. ATI-TEAS sub-scores must be a minimum of 55. Given multiple test scores, the student must select which test scores that will be used for the application.

Students are conditionally accepted pending satisfactory completion of drug screening and criminal background checks and any relevant courses in progress.

Excerpts from Texas Board of Nursing Website and Petition for Declaratory Order Form

- Applicants with eligibility issues (a positive criminal background screen and/or answering "yes" to questions 2-5) that could prevent them from taking the NCLEX examination, upon completion of a nursing program, must complete the eligibility review process. If you have a positive criminal background screen, you will **NOT** be admitted into SHSU's Nursing program **without an outcome letter from the Board of Nursing for the State of Texas stating that you have been granted permission to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN).** The eligibility review process permits the Board to make decisions regarding an applicant's eligibility for licensure prior to entering or completing a nursing program. Effective January 2018, applicants should wait for the initial outcome letter (for those not receiving a blue card) before submitting a Declaratory Order. However, they can submit paperwork in advance if they must also answer "yes" to questions 2-5.
- Further information:
  School of Nursing Application Process (https://www.shsu.edu/academics/health-sciences/nursing/students/application.html)
  Texas Board of Nursing (https://www.bon.texas.gov/)

Core Performance Standards for Admission and Progression

****** Please Read Carefully ******

Below are listed the performance standards of the professional nursing program. Applicants to the Sam Houston State University (SHSU) School of Nursing (SON) should read these standards carefully, and be sure that you can comply with them. The SHSU SON expects all applicants for admission to possess and demonstrate the skills, attributes, and qualities set forth below, without unreasonable dependence on technology or intermediaries.

Critical Thinking: Critical thinking ability sufficient for clinical judgment, sufficient powers of intellect to acquire, assimilate, apply, and evaluate information and solve problems. For example, identify cause-effect relationships in clinical situations; develop and implement nursing care plans according to the nursing process; respond without delay to emergency situations

Interpersonal: Interpersonal abilities sufficient enough for interaction with individuals, families, and groups from a variety of social, emotional, cultural, economic, and intellectual backgrounds. For example, Establish rapport with patients/clients, colleagues, and other health care professionals. Respect cultural diversity and the rights of others.

Communication: Communication abilities sufficient for interaction with others in verbal and written form. Utilizes effective communication skills to interact with patient/client, peers, and other health care personnel of various ages, cultural, economic, and intellectual backgrounds in a variety of settings. For example, read, write and speak English effectively so as to be understood. Explain treatment and procedures; provide health teaching to individual clients and groups of clients based on assessed needs, available resources, age, lifestyle and cultural considerations; documents and interprets nursing actions and patient/client responses. Communicate information accurately and effectively with other Schools, colleagues, clients, and client families. Evaluate written orders, care plans, and treatment requests.

Mobility: Ability to reach assigned clinical sites which will be scheduled within a 100-mile radius of The Woodlands Center. Gross and fine motor abilities sufficient to provide safe and effective nursing care. Sufficient physical abilities to function in the patient care settings, such as, physical health and stamina needed to carry out nursing procedures. Ability to calibrate and use equipment effectively. Ability to grasp small objects and perform electronic keyboarding/documentation. Ability to move around the patients/clients' rooms, workspaces, treatment areas, and be able to move, position, and transport patients without causing harm, minimal pain, and discomfort for patient and staff alike.

Sensory: Sufficient use of the senses of vision, hearing, touch, and smell to observe, assess, and evaluate effectively (both close and at a distance) in the classroom, laboratory, and clinical settings. For example, hear monitor alarms, emergency signals, auscultation sounds and cries for help. Observe patient/client responses. Perform tactile/palpation functions of physical examination or those functions related to therapeutic intervention, e.g., insertion of catheters and IVs for therapy.

Behavioral: Sufficient motivation, responsibility, and flexibility to function in new, ever-changing, and stressful environments. Adapts appropriately to ever-changing needs of clients and client families. Adapts to assignment change of patient, clinical, or laboratory area in a manner that allows the student to meet objectives while providing safe, adequate patient care. Accountable for clinical preparation and independent study. Performs nursing functions in a safe, responsible manner. Ability to recognize the need for further research and respond accordingly based on changes in patient/client status since assignment was made.

- Bachelor of Science, Major in Nursing (BSN) (p. 727)
- LVN to BSN (p. 730)
- RN to BSN (p. 734)

Student Organizations

Sigma, Alpha Alpha Xi Chapter

Sam Houston State University houses the Alpha Alpha Xi Chapter of Sigma, formerly known as Sigma Theta Tau International. Sigma has more than 135,000 members in over 100 countries. Baccalaureate and graduate school members demonstrate excellence in scholarship, and nursing leaders exhibit exceptional achievements in nursing. Currently 39 % of all active members hold master's and/or doctoral degrees; 51% are in staff positions; 19% are administrators or supervisors; 18% are faculty/academics; and 12% percent are in advanced practice nursing.

Student Nursing Association

Students enrolled in the Nursing School and in pre-nursing courses are eligible to participate as members of the SHSU chapter of the Texas Nursing Students' Association (TNSA). The TNSA is the student component of the American Nurses' Association, a national professional nursing organization with state and local constituencies, and a subsidiary of the National Student Nurses' Association (NSNA). Participation locally affords membership in the largest independent health organization in the nation and the only one for nursing students. TNSA offers numerous benefits to those student members. More information on meetings and activities can be obtained from the School of Nursing website.

Nursing Christian Fellowship

Nursing Christian Fellowship provides a place for nursing students, faculty, and local nurses to come together in authentic community for Bible study and fellowship. Through NCF, students will be encouraged to grow in their faith in the context of nursing school, be equipped to integrate their faith with nursing through Bible studies and spiritual care resources, and be empowered to share your faith with other nursing students and faculty.

Scholarships

SHSU offers scholarships to students in the School of Nursing. A complete list of scholarship opportunities can be found on the Scholarships for Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) webpage. Search for nursing to identify competitive scholarships based on student performance in nursing and prerequisite coursework. Assistance is also available through Financial Aid, including scholarships, loans, and grants outside of SHSU. Priority deadline for scholarships is November 1. You must complete the current year FAFSA to be considered for nursing scholarships.

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

School of Nursing

- Charlie W. & Laverna M. Lucko Memorial Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Ed and Celia Franklin Endowed Scholarship for Nursing: Amount varies (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Marjorie Milliet Eglsaer Nursing Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Mary Ellen Ragsdale Nursing Scholarship: $5,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Roland E. Black Nursing Scholarship: $3,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- St. Luke's The Woodlands Hospital Nursing Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Stewart-Jones Nursing Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Sue Walker Rogers Nursing Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Nurseify Excellence in Nursing Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Director/Chair: **Devon Michael Berry**

Lilibeth Claudio Al-Kofahy, PHD (lxa019@shsu.edu), *Clinical Professor of Nursing*, *School of Nursing*, PHD, University of Queensland (The); MN, Victoria University; MAN, Far Eastern University; BSN, MV Gallego Foundation Colleges

Michelle Angelo, MSN (mxa147@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas HSC-Houston; BSN, McNeese State University; BSBA, McNeese State University

Lindsey Brooke Beatty, DNP (lbp001@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Texas A&M-Corpus Christi; MSN, Loyola Univ-New Orleans; BS, Sam Houston State University; BS, Sam Houston State University

Devon Michael Berry, PHD (dmb116@shsu.edu), *Associate Professor and Director of Nursing*, *School of Nursing*, PHD, Univ of Washington; MBA, Western Governors University; MSN, Case Western Reserve Univ; BSN, Cedarville University

Deletea Mashawnda Bradley, MSN (dmb146@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Univ of Texas-Arlington

Michael F. Brown, PHD (mfb021@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas HSC-Houston; MSN, West Texas A&M State Univ; BSN, West Texas A&M State Univ

Nancy Stark Carey, MS (nsc014@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MS, Texas Woman's University; BS, Southwestern Adventist Univ.

Mona C Cockerham, PHD (mcc053@shsu.edu), *Assistant Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas HSC-Houston; MSN, Univ of Texas HSC-Houston; BS, Louisiana College

Tonya L Couch, MS (tlc106@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Western Governors University; BSN, Prairie View A&M University

Kathryn Poole Deshotels, MSN (kpd008@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Tx Health Science Cntr; BSN, Univ of S Carolina-Columbia; BS, McNeese State University

Angelique Lynn Domonoske, MS (alc092@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MS, Western Governors University; BS, Western Governors University

Keith Michael Douglass, MN (kmd090@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MN, Sacred Heart University; MHA, Saint Joseph's College; BSN, Utica College

Deborah Lovett Duncan, MSN (dld034@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, University of Phoenix; MAED, Univ of Alabama-Birmingham; BSN, Univ of Alabama-Birmingham

Jennifer Ifeyiwa Edeogu, MSN (jxe035@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MSN, Univ. of Texas-Med-Galveston; BS, Lamar University

Ashley Nicole Garcia, MSN (ann026@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas At Tyler; BSN, Sam Houston State University

Divina Perez Gato-Hogno, DNP (dpg019@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Univ of Texas-Arlington; MSN, Univ. of Texas-Med-Galveston; BSN, Un of Tx-HSC At Houston

Heidi Elizabeth Gilroy, PHD (heg023@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, PHD, Texas Woman's University; MSN, Illinois Benedtn Col; BS, Texas Woman's University

Marcy Gibson Grubbs, DNP (mgb071@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, DNP, Jacksonville University; MSN, Univ of Alabama-Tuscaloosa; BSN, Jacksonville University

Robert G Harmon, MSN (rgh012@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, Univ of Texas HSC-Houston; BSN, Austin Peay State University

Billie Bob Harrell, MSN (stdbbh11@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Un of Tx-HSC At Houston; BSN, Un of Tx-HSC At Houston

Sarah Anne Hirsch, PHD (sah110@shsu.edu), *Assistant Professor of Nursing*, *School of Nursing*, PHD, Capella University; MSN, Univ of Texas-Arlington; BSN, Texas Tech Univ-Hlth Sci Cntr

Monique Chanel Huntley, PHD (mch067@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, PHD, Texas Woman's University; MSN, Prairie View A&M University; BSN, Prairie View A&M University

Bibi Nazeema Hussain, MSN (bnh079@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Univ of Texas-Arlington

Hope Pilar Jackson, PHD (hpj002@shsu.edu), *Visiting Assistant Professor of Nursing*, *School of Nursing*, PHD, Univ of Nebraska Med Center; MSN, Univ of Nebraska Med Center; BSN, Creighton University

Linda Sue James, MS (lsj007@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MS, University of Toronto; BSN, University of Western Ontario

Angela Faith Jarrell, PHD (afs014@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, PHD, Texas Woman's University; MSN, Duquesne University; BSN, Univ of Tx Health Science Cntr

Desha Johnson Makiya, PHD (dxj016@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas At Tyler; MBA, University of Phoenix; BS, Alcorn State University

Randi Nicole Kalich, MSN (rnk014@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Un of Tx-HSC At Houston

Sheryl Laurente, MS (sxl146@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MS, Walden University; BS, West Visayas State University

Stephanie Ann Mayne, MSN (sam100@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas At Tyler; BSN, Sam Houston State University

Michelle McLendon, MS (mxm445@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Texas Woman's University; BS, Univ of Texas-El Paso

Aprille Daevonda McQueen, MS (adm104@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Sam Houston State University; MS, Prairie View A&M University; BS, Prairie View A&M University

Jenny Marie Meiss, MSN (jmm311@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Univ of Texas-Arlington

Angela Marie Miller, MSN (amm455@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ. of Texas-Med-Galveston

Cindy Zuleyma Morataya, MSN (czm002@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Un of Tx-HSC At Houston; BSN, Un of Tx-HSC At Houston

Rebecca A Okungu, MSN (rao019@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, Prairie View A&M University; BSN, Prairie View A&M University

Anne Genevieve Papa-Torres, MSN (agp050@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, University of Phoenix; BS, Remedios Romualdez Memorial Schools

Hope Althea Reeves, MSN (har029@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Houston-Main; BSN, Thomas Jefferson Univ

Jennifer Muir Reeves, DNP (jmr179@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, DNP, Univ of Texas-Arlington; MSN, Univ of Texas HSC-Houston; BSN, Univ of Texas-Arlington

Melissa Janette Silvera, MSN (mxs180@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Grand Canyon Univ.; BSN, Grand Canyon Univ.

Pamela Forester Slagle, MSN (pfs004@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MSN, University of Phoenix; BS, Univ of Mary Hardin Baylor

Andrea Marie Smith, PHD (axs226@shsu.edu), *Associate Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas-Arlington; MSN, Baylor University; BSN, Univ of Texas Medical Branch; BA, Southern Illinois U-Carbondale

Tanesha Michelle Tran, DNP (tmt055@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Univ. of Texas-Med-Galveston; MSN, Univ. of Texas-Med-Galveston; BSN, Texas Tech Univ-Hlth Sci Cntr

Oluchi Chimyerem Ujoatu, DNP (ocu004@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Prairie View A&M University; MSN, Walden University

Heather Ellen Walker, DNP (hew027@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Univ of Texas At Austin; MSN, Capella University; BSN, Univ of Texas At Austin

Renece Waller-Wise, DNP (rxw029@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Troy University; BS, Univ of Alabama-Birmingham; BSN, Univ of Alabama-Birmingham

Vanessa Rochelle Weaver, DNP (vrw010@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, DNP, Univ of Alabama-Tuscaloosa; MSN, Prairie View A&M University; BSN, Prairie View A&M University

Susan Keaton Weimer, MS (skw019@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Western Governors University; BS, Western Governors University

Emefa Yador, DNP (exy015@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Baylor University; MHA, University of Phoenix; MS, University of Phoenix; BS, Bloomfield College

Kelly Kristine Zinn, PHD (kkzinn@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, PHD, Loyola Univ-Chicago; MS, Univ of Nebraska Med Center; BSN, Clarkson College

Lance D Zuckero, MSN (ldz002@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas HSC-Houston; BSN, Univ of Texas HSC-Houston

Bachelor of Science, Major in Nursing (BSN)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-nursing/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Pre-nursing students must complete all pre-requisites at the time of application and be core complete beginning with the Fall 2025 admission cycle and thereafter.

Code	Title	Hours
Bachelor of Science, Major in Nursing		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 6]	4
BIOL 2404	Human Anatomy & Physiology II [2, 6]	4
BIOL 2420	Introduction to Applied Microbiology [7]	4
or BIOL 3470	General Microbiology	
CHEM 1406	Inorganic & Environmental Chemistry [8]	4
or CHEM 1411	General Chemistry I	
FSCN 2362	Nutrition [7,9]	3
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics	3
or MATH 1342	Elementary Statistics	
or PSYC 3402	Psychological Statistics	
PSYC 1301	Introduction To Psychology [4]	3
PSYC 3374	Development Psychology	3
Major: Foundation		
NURS 2132	Foundations & Health Assessment Lab	1
NURS 2133	Experiential Learning 1 - Concept Application	1
NURS 2231	Recitation and Wellness for Student Success 1	2
NURS 2321	Applied Pathophysiology/Pharmacology 1	3
NURS 2531	Foundations of Nursing	5
NURS 3134	Experiential Learning 2 - Concept Application	1
NURS 3135	Experiential Learning 3 - Concept Application	1
NURS 3141	Applied Pathophysiology/Pharmacology 3	1
NURS 3231	Applied Pathophysiology/Pharmacology 2	2
NURS 3232	Recitation and Wellness for Student Success 2	2
NURS 3233	Recitation and Wellness for Student Success 3	2
NURS 3263	Population Health Nursing	2
NURS 3342	Behavioral Health Nursing Care	3
NURS 3360	Introduction to Research	3
NURS 3521	Medical - Surgical Nursing1	5
NURS 3522	Medical - Surgical Nursing 2	5

NURS 4137	Experiential Learning 5 - Concept Application	1
NURS 4222	Child & Adolescent Nursing	2
NURS 4235	Recitation and Wellness for Student Success 4	2
NURS 4236	Experiential Learning 4 - Concept Application	2
NURS 4237	Recitation and Wellness for Student Success 5	2
NURS 4242	Maternal Newborn Nursing & Women's Health	2
NURS 4264	Applied Population Health Nursing	2
NURS 4331	Leadership & Transition to Practice	3
NURS 4631	Medical - Surgical Nursing 3 (Critical Care)	6
Minor: Not Required [10,11]		
Total Hours		**120**

Code	Title	Hours
Nursing Prerequisites and Texas Core		**59**
Nursing Credit Hours		**63**
Total Hours		**122**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3 PHIL 1301 is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
4 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 SOCI 2319 and KINE 2115 are recommended and satisfy Core Curriculum requirements for Component Area IX (Component Area Option).
6 BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
7 BIOL 2420 and FSCN 2362 are nursing pre-requisites that must be completed before nursing application date.
8 CHEM 1406 is recommended
9 FSCN 1367 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
10 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
11 All minors can be paired with this degree program.

Notes

Students must earn a 3.0 minimum GPA in nursing prerequisite and Core Curriculum coursework.

Students must earn a 2.0 minimum overall major GPA in all Nursing major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

BIOL 2404 requires a grade of "C" or higher in BIOL 2403.

Students must apply and be accepted into the SHSU School of Nursing prior to registering for any NURS courses.

Students must receive a grade of "C" or better in each NURS course to progress to the next nursing courses.

Students may not progress to the next level of NURS courses until all courses in previous level have been successfully completed.

Students accepted into the SHSU School of Nursing are required to adhere to additional policies indicated in the School of Nursing student handbook.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-nursing/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Pre-nursing students must complete all pre-requisites at the time of application and be core complete beginning with the Fall 2025 admission cycle and thereafter.

First Year

	First Semester	Hours	Second Semester	Hours	
	BIOL 2403[1]		4 BIOL 2404[1]		4
	CHEM 1406 or 1411[2]		4 ENGL 1302[3]		3
	ENGL 1301[3]		3 HSTY 1301[6]		3

		MATH 1314, 1324, 1410, or 1420[4]	3	MATH 1370, 1342, or PSYC 3402	3
		PSYC 1301[5]	3	PSYC 3374	3
			17		**16**

Second Year

Summer	Hours	First Semester	Hours	Second Semester	Hours
BIOL 2420 or 3470[7]		4 Component Area IV (p. 89)[10]	3	NURS 2132	1
FSCN 2362[7,8]		3 Component Area V (p. 90)	3	NURS 2133	1
POLS 2305[9]		3 Component Area IX (p. 91)[11]	1	NURS 2231	2
		Component Area IX (p. 91)[11]	3	NURS 2321	3
		HSTY 1302[6]	3	NURS 2531	5
		POLS 2306[9]	3		
	10		**16**		**12**

Third Year

		First Semester	Hours	Second Semester	Hours
		NURS 3134	1	NURS 3135	1
		NURS 3231	2	NURS 3141	1
		NURS 3232	2	NURS 3233	2
		NURS 3342	3	NURS 3263	2
		NURS 3521	5	NURS 3360	3
				NURS 3522	5
			13		**14**

Fourth Year

		First Semester	Hours	Second Semester	Hours
		NURS 4222	2	NURS 4137	1
		NURS 4230	2	NURS 4237	2
		NURS 4235	2	NURS 4331	3
		NURS 4236	2	NURS 4631	6
		NURS 4242	2		
		NURS 4264	2		
			12		**12**

Total Hours: 122

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science). In addition, BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement; please, see a SAM Center advisor for more details.
2 CHEM 1406 is recommended.
3 Satisfies Core Curriculum requirement for Component Area I (Communications).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
7 BIOL 2420 and FSCN 2362 are nursing pre-requisites that must be completed before nursing application date.
8 FSCN 1367 may be used as a transfer course for this requirement; please see a SAM Center advisor for more details.
9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
10 PHIL 1301 is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
11 SOCI 2319 and KINE 2115 are recommended and satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

Notes

Students must earn a 3.0 minimum GPA in nursing prerequisite and Core Curriculum coursework.

Students must earn a 2.0 minimum overall major GPA in all Nursing major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

BIOL 2404 requires a "C" or higher in BIOL 2403.

Students must apply and be accepted into the SHSU School of Nursing prior to registering for any NURS courses.

Students must receive a grade of “C” or better in each NURS course to progress to the next nursing courses.

Students may not progress to the next level of NURS courses until all courses in previous level have been successfully completed.

Students accepted into the SHSU School of Nursing are required to adhere to additional policies indicated in the School of Nursing student handbook.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program’s stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Nursing (BSN) is designed to provide graduates with the following marketable skills:

- Lead in the provision of safe quality care using evidence-based practice.
- Collaborate with patients and members of the healthcare team to promote health and provide preventive care.
- Incorporate ethical principles and professional standards to provide quality care to diverse populations.
- Advocate for patients and the nursing profession while incorporating dynamic system practices, health policies, and global healthcare factors.
- Maintain confidentiality and protect patient rights utilizing technology and information management systems.

LVN to BSN

Pre-nursing students must be core complete beginning with the Fall 2025 admission cycle and thereafter.

Code	Title	Hours
LVN to BSN		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 6]	4
BIOL 2404	Human Anatomy & Physiology II [2, 6]	4
BIOL 2420	Introduction to Applied Microbiology [7]	4
or BIOL 3470	General Microbiology	
CHEM 1406	Inorganic & Environmental Chemistry [8]	4
or CHEM 1411	General Chemistry I	
FSCN 2362	Nutrition [7]	3
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1410	Elementary Functions	

or MATH 1420	Calculus I	
MATH 1370	Introduction to Biomedical Statistics	3
or MATH 1342	Elementary Statistics	
or PSYC 3402	Psychological Statistics	
PSYC 1301	Introduction To Psychology [4]	3
PSYC 3374	Development Psychology	3
Track Specific Requirements		
NURS 2132	Foundations & Health Assessment Lab	1
NURS 2133	Experiential Learning 1 - Concept Application	1
NURS 2231	Recitation and Wellness for Student Success 1	2
NURS 2321	Applied Pathophysiology/Pharmacology 1	3
NURS 2531	Foundations of Nursing	5
NURS 3134	Experiential Learning 2 - Concept Application	1
NURS 3135	Experiential Learning 3 - Concept Application	1
NURS 3141	Applied Pathophysiology/Pharmacology 3	1
NURS 3231	Applied Pathophysiology/Pharmacology 2	2
NURS 3232	Recitation and Wellness for Student Success 2	2
NURS 3233	Recitation and Wellness for Student Success 3	2
NURS 3263	Population Health Nursing	2
NURS 3342	Behavioral Health Nursing Care	3
NURS 3360	Introduction to Research	3
NURS 3521	Medical - Surgical Nursing1	5
NURS 3522	Medical - Surgical Nursing 2	5
NURS 4137	Experiential Learning 5 - Concept Application	1
NURS 4222	Child & Adolescent Nursing	2
NURS 4230	Maternal Newborn/Child Nursing Clinical	2
NURS 4235	Recitation and Wellness for Student Success 4	2
NURS 4236	Experiential Learning 4 - Concept Application	2
NURS 4237	Recitation and Wellness for Student Success 5	2
NURS 4242	Maternal Newborn Nursing & Women's Health	2
NURS 4264	Applied Population Health Nursing	2
NURS 4331	Leadership & Transition to Practice	3
NURS 4631	Medical - Surgical Nursing 3 (Critical Care)	6
Total Hours		**122**

Code	Title	Hours
Nursing Prerequisites and Texas Core		**59**
Nursing Credit Hours		**63**
Total Hours		**122**

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3 PHIL 1301 is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
4 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 SOCI 2319 and KINE 2115 are recommended and satisfy Core Curriculum requirements for Component Area IX (Component Area Option).
6 BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement.
7 BIOL 2420 and FSCN 2362 are nursing pre-requisites for that must be completed before nursing application date. FSCN 1367 may be used as a transfer course for this requirement.
8 CHEM 1406 recommended.

Notes

Students must earn a 3.0 minimum GPA in nursing prerequisite and Core Curriculum coursework.

Students must earn a 2.0 minimum overall GPA in all Nursing major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

BIOL 2404 requires a grade of "C" or higher in BIOL 2403.

Science courses do not require a 7-year renewal for practicing LVNs.

Students must apply and be accepted into the SHSU School of Nursing prior to registering for any NURS courses (unencumbered LVN license required).

Students must receive a grade of “C” or better in each NURS course to progress to the next nursing courses.

Students may not progress to the next level of NURS courses until all courses in previous level have been successfully completed.

Students accepted into the SHSU School of Nursing are required to adhere to additional policies indicated in the School of Nursing student handbook.

Pre-nursing students must be core complete for the Fall 2025 admission cycle and thereafter.

First Year

	First Semester	Hours	Second Semester	Hours
	BIOL 2403[1]		4 BIOL 2404[1]	4
	CHEM 1406 or 1411[2]		4 ENGL 1302[3]	3
	ENGL 1301[3]		3 HSTY 1301[6]	3
	MATH 1314, 1324, 1410, or 1420[4]		3 MATH 1370, 1342, or PSYC 3402	3
	PSYC 1301[5]		3 PSYC 3374	3
			17	**16**

Second Year

Summer	Hours	First Semester	Hours	Second Semester	Hours
BIOL 2420 or 3470[7]		4 Component Area IV (p. 89)[10]		3 NURS 2132	1
FSCN 2362[7, 8]		3 Component Area V (p. 90)		3 NURS 2133	1
POLS 2305[9]		3 Component Area IX (p. 91)[11]		3 NURS 2231	2
		Component Area IX (p. 91)[11]		1 NURS 2321	3
		HSTY 1302[6]		3 NURS 2531	5
		POLS 2306[9]		3	
		10		**16**	**12**

Third Year

	First Semester	Hours	Second Semester	Hours
	NURS 3134		1 NURS 3135	1
	NURS 3231		2 NURS 3141	1
	NURS 3232		2 NURS 3233	2
	NURS 3342		3 NURS 3263	2
	NURS 3521		5 NURS 3360	3
			NURS 3522	5
			13	**14**

Fourth Year

	First Semester	Hours	Second Semester	Hours
	NURS 4222		2 NURS 4137	1
	NURS 4230		2 NURS 4237	2
	NURS 4235		2 NURS 4331	3
	NURS 4236		2 NURS 4631	6

	NURS 4242	2	
	NURS 4264	2	
		12	**12**

Total Hours: 122

Code	Title	Hours
Nursing Prerequisites and Texas Core		**59**
Nursing Credit Hours		**63**
Total Hours		**122**

1 Satisfies Core Curriculum for Component Area III (Life and Physical Science). BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement; please, see a SAM Center advisor for more details.
2 CHEM 1406 recommended.
3 Satisfies Core Curriculum for Component Area I (Communication).
4 Satisfies Core Curriculum for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
7 BIOL 2420 and FSCN 2362 are nursing pre-requisites for that must be completed before nursing application date.
8 FSCN 1367 may be used as a transfer course for this requirement.
9 Satisfies Core Curriculum for Component Area VII (Political Science/Government).
10 PHIL 1301 is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
11 SOCI 2319 or KINE 2115 are recommended and satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

Notes

Students must earn a 3.0 minimum GPA in nursing prerequisite and Core Curriculum coursework.

Students must earn a 2.0 minimum overall GPA in all Nursing major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

BIOL 2404 requires a grade of "C" or higher in BIOL 2403.

Science courses do not require a 7-year renewal for practicing LVNs.

Students must apply and be accepted into the SHSU School of Nursing prior to registering for any NURS courses (unencumbered LVN license required).

Students must receive a grade of “C” or better in each NURS course to progress to the next nursing courses.

Students may not progress to the next level of NURS courses until all courses in previous level have been successfully completed.

Students accepted into the SHSU School of Nursing are required to adhere to additional policies indicated in the School of Nursing student handbook.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state’s **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The LVN to BSN is designed to provide graduates with the following marketable skills:

- Lead in the provision of safe quality care using evidence-based practice.
- Collaborate with patients and members of the healthcare team to promote health and provide preventive care.
- Incorporate ethical principles and professional standards to provide quality care to diverse populations.
- Advocate for patients and the nursing profession while incorporating dynamic system practices, health policies, and global healthcare factors.
- Maintain confidentiality and protect patient rights utilizing technology and information management systems.

RN to BSN

The RN to BSN program courses are 100% online to accommodate a working nurse's schedule. Full and part-time options are available to provide flexibility for the working Registered Nurse (RN). Faculty are available at SHSU-The Woodlands Center for questions and advising. For more information on the RN-BSN program, contact: prenursing@shsu.edu. (prenursing@shsu.edu)

The RN-BSN Online Track is designed for the student who is enrolled in or graduated from a community college with a degree in nursing and will be eligible to sit for the NCLEX-RN, or who has passed the NCLEX-RN, holds a current, unencumbered Texas license as a registered nurse and wishes to obtain the baccalaureate degree. Earning a baccalaureate degree will open more doors in an RN's nursing career, allowing for positions of leadership, enhanced career advancement opportunities, and the potential to pursue graduate education.

There are three types of admission to SHSU's RN to BSN program:

1) Unconditional Admission

2) Conditional Admission

3) Joint Admission while enrolled in a partner community college nursing program.

The table below illustrates the requirements for each type of admission.

Admission Type	Application to SHSU	Application to RN BSN	Texas RN License	Cumulative GPA	Prerequisiste GPA [1]	Proof of Clinical Readiness	Completion of all Prerequisite Courses
Unconditional	X	X	X	2.5	2.5	X	X
Conditional	X	X	Within 1 semester, before beginning clinical courses	2.5	2.5	X	Within 1 year*
Joint	X	X	Before beginning clinical courses	2.5	2.5	X	Before beginning clinical courses**

*For Conditional Admission, prerequisite courses may be taken following enrollment in RN-BSN program, but must be taken within one year.

**Joint Admission students may apply after completion of 1st semester of ADN courses. Students must have unencumbered RN license to practice in Texas prior to enrolling in clinical courses.

Code	Title	Hours
RN to BSN		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
BIOL 2403	Human Anatomy & Physiology I [2, 6]	4
BIOL 2404	Human Anatomy & Physiology II [2, 6]	4
BIOL 2420	Introduction to Applied Microbiology	4
or BIOL 3470	General Microbiology	
CHEM 1406	Inorganic & Environmental Chemistry	4
or CHEM 1411	General Chemistry I	
or CHEM elective or approved elective		
FSCN 2362	Nutrition [7]	3
or approved elective		

MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1342	Elementary Statistics	3
or MATH 1370	Introduction to Biomedical Statistics	
or PSYC 3402	Psychological Statistics	
PSYC 1301	Introduction To Psychology [4]	3
PSYC 3374	Development Psychology	3
Track Specific Requirements		
NURS 4030	Community Nursing	3
NURS 4382	Informatics	3
NURS 3360	Introduction to Research	3
NURS 4060	Leadership and Management	3
NURS 4381	Legal and Ethical Issues in Nursing	3
NURS 4384	Nursing Genetics and Genomics	3
NURS 3340	Older Adult Health Management	3
NURS 4372	RN-to-BSN Capstone	3
NURS 3370	RN-to-BSN Role Transition	3
NURS 4383	Rural Health Nursing	3
Articulation Credit		
ADN/Diploma Nursing courses applied to the RN-BSN degree [8,9]		32
Minor: Not Required [10,11]		
Total Hours		**121**

Code	Title	Hours
Prenursing Prerequisites and Texas Core		**59**
Nursing Credit Hours		**62**
Total Hours:		**121**

1. Satisfies Core Curriculum requirement for Component Area II (Mathematics).
2. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
3. PHIL 1301 is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
4. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5. SOCI 2319 and KINE 2115 are recommended and satisfy Core Curriculum requirements for Component Area IX (Component Area Option).
6. BIOL 2401 and BIOL 2402 may be used as a transfer course for this requirement.
7. FSCN 1367 may be used as a transfer course for this requirement.
8. Includes 12 hours NCLEX exam credit: NURS 3620 and NURS 4620.
9. Associate Degree in Nursing (ADN) is completed at a community college prior to applying to the RN-BSN program (joint admission option allows students to apply to the RN-BSN after completing the 1st semester of ADN).
10. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
11. All minors can be paired with this degree program.

Notes

Students must earn a minimum 2.5 GPA in nursing prerequisites and Core Curriculum coursework.

Students must earn a 2.0 minimum overall major GPA in all Nursing coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must apply and be accepted into the SHSU School of Nursing prior to registering for any NURS courses.

Science courses do not require a 7 year renewal.

Students admitted not core complete, must meet the SHSU core curriculum requirements. For students who are taking prerequisite hours at SHSU, see the pre-licensure BSN requirements.

The nursing credit hours include 32 articulation credits and 30 hours taken at SHSU. Course substitutions in the degree specific credit hours may require additional elective credit hours to reach the total 121 credits required for the degree.

Students must receive a grade of "C" or better in each NURS course.

Students accepted into the SHSU School of Nursing are required to adhere to additional policies indicated in the School of Nursing student handbook.

NURS 4372 is recommended to be taken in the final semester.

First Year

First Semester	Hours	Second Semester	Hours
BIOL 2403[1]	4	BIOL 2404[1]	4
CHEM 1406 or 1411 (or CHEM elective or approved elective)	4	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1301[5]	3
MATH 1314, 1324, 1410, or 1420[3]	3	MATH 1342, 1370, or PSYC 3402	3
PSYC 1301[4]	3	PSYC 3374	3
	17		**16**

Second Year

First Semester	Hours	Second Semester	Hours
Component Area IX (p. 91)[6]	3	Component Area IV (p. 89)[9]	3
BIOL 2420 or 3470	4	Component Area V (p. 90)	3
FSCN 2362[7]	3	Component Area IX (p. 91)	1
HSTY 1302[5]	3	POLS 2306[8]	3
POLS 2305[8]	3		
	16		**10**

Third Year

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
NURS 3360	3	NURS 4030	3	NURS 3340	3
NURS 3370	3	NURS 4060	3	NURS 4372	3
NURS 4382	3	NURS 4383	3	NURS 4381	3
		NURS 4384	3		
	9		**12**		**9**

Fourth Year

First Semester	Hours
ADN/Diploma Nursing courses applied to RN-BSN Degree[10,11]	32
	32

Total Hours: 121

Code	Title	Hours
Nursing Prerequisites and Texas Core		**59**
Nursing Credit Hours (32 credits transferred in from ADN and 30 credits in nursing taken at SHSU)		**62**
Total Hours		**121**

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies Core Curriculum requirement Component Area VIII (Social and Behavioral Sciences).
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 SOCI 2319 is recommended and satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
7 FSCN 1367 may be used as a transfer course for this requirement.
8 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
9 PHIL 1301 is recommended and satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
10 Includes 12 hours NCLEX exam credit: NURS 3620 and NURS 4620.
11 Associate Degree in Nursing (ADN) is completed at a community college prior to applying to the RN-BSN program (joint admission option allows students to apply to the RN-BSN after completing the 1st semester of ADN).

Notes

Students must earn a minimum 2.5 GPA in nursing prerequisites and Core Curriculum coursework.

Students must earn a 2.0 minimum overall major GPA in all Nursing coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Students must apply and be accepted into the SHSU School of Nursing prior to registering for any NURS courses.

Science courses do not require a 7 year renewal.

Students admitted not core complete, must meet the SHSU core curriculum requirements. For students who are taking prerequisite hours at SHSU, see the pre-licensure BSN requirements.

The nursing credit hours include 32 articulation credits and 30 hours taken at SHSU. Course substitutions in the degree specific credit hours may require additional elective credit hours to reach the total 121 credits required for the degree.

Students must receive a grade of "C" or better in each NURS course.

Students accepted into the SHSU School of Nursing are required to adhere to additional policies indicated in the School of Nursing student handbook.

NURS 4372 is recommended to be taken in the final semester.

For more information on the RN-BSN program, contact: prenursing@shsu.edu

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The RN to BSN is designed to provide graduates with the following marketable skills:

- Lead in the provision of safe quality care using evidence-based practice.
- Collaborate with patients and members of the healthcare team to promote health and provide preventive care.
- Incorporate ethical principles and professional standards to provide quality care to diverse populations.
- Advocate for patients and the nursing profession while incorporating dynamic system practices, health policies, and global healthcare factors.
- Maintain confidentiality and protect patient rights utilizing technology and information management systems.

College of Humanities and Social Sciences

Administrative Officers

Title/Department	Officer
Dean	Chien-pin Li, Ph.D. cxl085@shsu.edu; (936) 294-2200

Senior Associate Dean	Leif French, Ph.D. lmf027@shsu.edu; (936) 294-2455
Associate Dean, Student Success	James Crosby, Ph.D. crosby@shsu.edu; (936) 294-2202
Associate Dean, Academic Programs	Carroll Ferguson Nardone, Ph.D. cfnardone@shsu.edu; (936) 294-2203
Department of Communication Studies	Frances Brandau, Ph.D., Chair scm_feb@shsu.edu; (936) 294-1356
Department of English	Tracy Bilsing, Ph.D., Interim Chair eng_teb@shsu.edu; (936) 294-1402
Department of History	Brian Jordan, Ph.D., Chair bmj018@shsu.edu; (936) 294-4460
Department of Political Science	Jason Enia, Ph.D., Chair jason.enia@shsu.edu; (936) 294-1467
Department of Psychology and Philosophy	Maria Botero, Ph.D., Interim Chair mbotero@shsu.edu; (936) 294-3052
Department of Sociology	Bart Stykes, Ph.D., Chair jbs048@shsu.edu; (936) 294-1511
Department of World Languages and Cultures	Maria Barker, Ph.D., Chair mhb015@shsu.edu; (936) 294-4584
Bachelor of Science in Integrated Studies	Montse Feu Lopez, Ph.D., Program Coordinator mmf017@shsu.edu; (936) 294-1448

About the College

The College of Humanities and Social Sciences consists of eight components:

- Communication Studies
- English
- History
- Political Science
- Psychology and Philosophy
- Sociology
- World Languages and Cultures
- Integrated Studies

Mission

The College of Humanities and Social Sciences (CHSS) supports excellence in research, prioritizes student success, and collaborates with the community to provide a high-quality and accessible education that prepares students to engage in, and successfully navigate, a vibrant and multifaceted world.

Highlights

- Students have the opportunity to acquire critical marketable skills through the CHSS Skills Workshop Series.
- Students in CHSS can compete for scholarships through the CHSS Skills Challenge, while also serving their community in a major problem-solving project.
- Interdisciplinary minors housed in the college include American Studies, Community Leadership, Latin American and Latinx Studies, Legal Studies, and Middle Eastern Studies.
- CHSS houses the Bachelor of Science in Integrated Studies, an innovative program where students can help design their own degrees.
- CHSS houses two Research Centers:
  - Center for the Study of Disasters & Emergency Management (CDEM)
  - Center for Multi-cultural Rural Development (CMRD)
- Faculty in the College of Humanities and Social Sciences have been recognized for their research and scholarship with national awards. Among these awards is a finalist for the Pulitzer Prize in History, a National Endowment for the Arts Literature Fellow, and a National Endowment for the Arts Creative Writing Fellow.
- CHSS is home to three Distinguished Professors: Drs. Marcus Boccaccini, Psychology; Mary Alice Conroy, Psychology; and, Helena Halmari, English. Distinguished Professors are recognized as outstanding leaders in their field who have earned national and international honors.
- Courses in the College of Humanities and Social Sciences exceed the national norms in teacher effectiveness and course excellence.

- CHSS prides itself in the number of opportunities for undergraduate students to conduct research with recognized scholars and supports faculty/student research teams through the SPUR (Sponsoring Promising Undergraduate Research) initiative.
- CHSS publishes the academic journal, *The Measure: A Journal of Undergraduate Research,* which showcases research projects from CHSS courses and provides students with peer-reviewed publishing opportunities.
- CHSS students have the opportunity to take Academic Community Engagement (ACE) courses across the curriculum. In these courses, students gain applied skills while serving their communities.
- Courses offered through the Ethics, Western Civilization, and American Traditions (EWCAT) program provide students with the opportunity to explore classic texts and participate in peer-led discussions. EWCAT sections are among our most popular.
- CHSS is home to many student organizations, both honorary and professional, to help build student resumes with active learning opportunities. Several of these clubs have been recognized regionally and nationally.

Academic Programs

Departments	Programs
Major	**Degree(s)**
Communication Studies	B.A., B.S.
English	B.A.
French	B.A.
History	B.A., B.S.
Integrated Studies	B.S.
Integrated Studies: Bioethics and Policy in Healthcare Concentration	B.S.
Integrated Studies: Environmental and Occupational Health Concentration	B.S.
Integrated Studies: Land and Urban Property Development Concentration	B.S.
Integrated Studies: Law, Ethics, and Society Concentration	B.S.
Integrated Studies: Legal Writing and Communication Concentration	B.S.
Integrated Studies: Social and Data Analytics Concentration	B.S.
Integrated Studies: Sustainable Community Management Concentrations	B.S.
Integrated Studies: Victimology and Mental/Public Health Concentration	B.S.
Philosophy	B.A.
Political Science	B.A., B.S.
Psychology	B.S.
Sociology	B.A., B.S.
Spanish	B.A.

Undergraduate Certificates

Departments	Programs
Communication Studies	Communication for Health and Social Care Professionals
Communication Studies	Communication for Legal and Criminal Justice Professionals
Communication Studies	Communication for Sport Professionals
English	Technical Communication

Scholarships

The College of Humanities and Social Sciences and its member departments are committed to supporting undergraduate students through scholarships. Please see the SHSU website under Financial Aid and Scholarships (http://www.shsu.edu/~fao_www/scholarships/). General scholarships are distributed through the Scholarships4kats system. Application deadlines are posted on this website. Please also refer to individual department websites for information on any additional scholarship opportunities in specific disciplines.

Course-based Opportunities

- Take Writing-Enhanced Courses (W-courses) to augment learning opportunities and enhance employable soft skills. Students take six hours at the advanced level in their major field of study, as well as six hours from other areas of study.
- Conduct research with recognized scholars.
- Publish in *The Measure: A Journal of Undergraduate Research.*
- Take classes across three areas of concentration in the American Studies minor--Regional and Borderland Studies, Ethnicity and Race in America, and Gender in America--to engage with a crucial diversity of perspectives across academic disciplines in CHSS.

- Choose from among several interdisciplinary minors such as, American Studies, Community Leadership, Latin American and Latinx Studies, and Legal Studies.
- Join one (or more) CHSS student organizations, both honorary and professional, to help build a strong resume with active learning opportunities.
- Study abroad in such locations as Canada, Central America, Europe, Taiwan, and Mexico.
- Gain course skills while serving your community through Academic Community Engagement (ACE) courses.
- Explore classic texts and participate in peer-led discussion through courses in our Ethics, Western Civilization, and American Traditions (EWCAT) courses, which are among our most popular courses in nearly every discipline.

College Requirements

The College of Humanities and Social Sciences (CHSS) offers two degrees at the undergraduate level: Bachelor of Arts (BA) and Bachelor of Science (BS). The standard for the two degrees are given below. Both the BA and the BS degrees require:

- 42 hours of the Core Curriculum
- 120 hours minimum requirement for a degree
- 42 advanced hours
- 30 hours (typically) residency credit[1] (25% of credit hours required of degree), 24 must be advanced, 12 in major, 6 in minor

[1] Residency credit is given to courses taken at Sam Houston State University. This includes campus courses, courses taken at the Woodlands Center, courses abroad taught by SHSU faculty, and online courses. Correspondence courses are not considered residency credit courses

The BA and the BS degrees differ in their emphases on liberal arts versus natural science and mathematics.

Bachelor of Arts

The Bachelor of Arts (BA) degree is one that focuses on the traditional liberal arts. The BA degree develops graduates with broad knowledge of language, humanities, fine arts, and social sciences. The requirements for this degree include:

- 30-36 hours in a major area
- 18-24 hours in minor (Most majors require a minor—check with specific departments)
- 3 hours of an additional course in Philosophy, Fine Arts, or Communication Studies, beyond the courses in the Core Curriculum.
- 14 hours in one Foreign Language

Bachelor of Science

The Bachelor of Science (BS) degree focuses on scientific investigation; therefore, courses that emphasize the scientific methods are included. The requirements for this degree include:

- 30-42 hours in a major area
- 18-24 hours in minor (Most majors require a minor—check with specific departments)
- 8 hours (two additional courses) in Natural Science, beyond the courses in the Core Curriculum
- 3 hours of an additional course in in Mathematics, Computer Science, or Logic, beyond the Core Curriculum

It should be noted that these requirements are minimum requirements and specific departments may require additional courses.

Bachelor of Science in Integrated Studies

In addition to the core, and three chosen minors, students in this degree plan complete the following special courses.

INTG 3301. Critical Approaches to Integrated Studies. 3 Hours.
Students research their chosen discipline minors to critically investigate and enhance their understanding of the fields associated with these minors. Emphasis is on students exploring links between their minors in preparation for coursework and employment or education beyond the interdisciplinary Bachelor's degree. Students must earn a "C" or better in INTG 3301.
Prerequisite: Sophomore Standing.

INTG 4301. Integrated Studies Capstone. 3 Hours.
Students conduct career exploration activities as well as complete a capstone project linking the three minor areas of study that comprise the student's personalized Bachelor of Science in Integrated Studies degree. Students will research, review, and analyze the three academic minor areas and mold them into an innovative research report. Students must earn a grade of "C" or better in INTG 4301. Course Equivalents: LSTU 4301, UNIV 4301
Prerequisite: INTG 3301.

Minor in Applied Ethics and Critical Thinking

The minor in Applied Ethics and Critical Thinking departs significantly from tradition. Rather than a concentration of content in a specific discipline, it provides students with a cross-disciplinary intellectual experience. The courses constituting the minor are designed to foster evaluation of competing discourses surrounding complex societal issues through various disciplinary lenses. To give a more concrete example of what this means, a student might complete a Philosophy course focused on racial disparities in environmental policy, an English course focused on literary treatments of economic inequality, and a Sociology course focused on water scarcity. Thus, the student would have the opportunity to think critically about three distinct, ethically fraught issues in three disciplinary milieus.

The courses in the minor may be focused on disparate topics and discourses, but they are united in their method of instruction, which is uniquely suited to serving the minor's aim. This minor is comprised of courses that incorporate Peer-Led Team Learning (PLTL) on the Ethics, Western Civilization, and American Traditions (EWCAT) model. Each course in the sequence is designed to encourage student ownership of learning and engagement with original texts. EWCAT courses are currently taught in various departments in the College of Humanities and Social Sciences (CHSS).

Code	Title	Hours
Minor in Applied Ethics and Critical Thinking		
Required Courses		
THNK 3333	Foundations of Inquiry	3
THNK 4396	Capstone Seminar	3
Prescribed Electives		
Four additional EWCAT courses [1]		12
Total Hours		**18**

[1] EWCAT courses, choose from the following:

Code	Title	Hours
EWCAT Courses		
ENGL 1301	Composition I	3
ENGL 1302	Composition II	3
ENGL 2332	World Literature I: Before the 17th Century	3
ENGL 2333	World Literature II: From the 17th Century and After	3
ENGL 3334	Literature and Film	3
ENGL 3338	Studies in Multicultural Literature	3
ENGL 3391	Studies in Shakespeare: Tragedies and Histories	3
HSTY 1301	U.S. History to 1876	3
HSTY 1302	U.S. History Since 1876	3
HSTY 2311	World History to 1500	3
HSTY 2312	World History Since 1500	3
PHIL 1301	Introduction to Philosophy	3
PHIL 2303	Critical Thinking	3
PHIL 2306	Contemporary Moral Issues	3
PHIL 4333	Bioethics	3
PHIL 4363	Ethical Theories	3
PHIL 4371	Death and Dying	3
POLS 2305	American Government	3
POLS 3373	Ideologies and Democracy	3
POLS 3377	Survey of Political Theory	3
POLS 3378	American Political Thought	3
PSYC 3381	Social Psychology	3
PSYC 3383	Psychology And The Law	3
PSYC 4334	Applied Social Psychology	3
SOCI 1301	Introduction to Sociology	3
SOCI 2319	Introduction To Ethnic Studies	3

SOCI 3324	Social Inequality	3
SOCI 3376	Rural And Urban Sociology	3

Minor in Medical Humanities and Social Sciences

The Minor in Medical Humanities and Social Sciences provides students with an interdisciplinary curriculum that draws from the studies of rhetoric, literature, communication, philosophy, ethics, history, culture, psychology, political science, and sociology. Thus, the minor complements majors from all Humanities, Social Sciences, and Allied Health disciplines. It prioritizes student success and access by preparing them for advanced study or careers in medicine, healthcare policy or law, public health, social work, patient navigation and advocacy, healthcare administration, and health communication, among others.

Code	Title	Hours
Minor in Medical Humanities and Social Sciences		
Required Courses		
MHSS 3300	Foundations of the Medical Humanities and Social Sciences	3
MHSS 4350	Medical Humanities & Social Sciences Capstone	3
Prescribed Electives		**12**
Select four from the following:		
COMS 3391	Interpersonal Health Communication	
COMS 3392	Risk Communication	
ENGL 4335	Studies in Rhetoric	
HIST 3373	Topics in the History of Science and Medicine	
PHIL 4333	Bioethics	
PHIL 4361	Philosophy of Psychology and Mind	
PHIL 4371	Death and Dying	
POLS 3393	Social Policy	
PSYC 3334	Human Sexuality	
SOCI 3365	Sociology Of Health & Illness	
SPAN 4374	Spanish for Health Professions	
Total Hours		**18**

Notes:
None of the courses taken by MHSS minors may be used to satisfy the requirements of any other major or minor.
All students must receive a "C" in all minor courses and maintain a 2.0 GPA overall.

Integrated Studies

Program Coordinator: Dr. Montse Feu Lopez (mmf017@shsu.edu), College of Humanities and Social Sciences

Please visit the Integrated Studies (https://www.shsu.edu/academics/humanities-and-social-sciences/integrated-studies/) program webpage for more information.

Information:

Phone: 936-294-1448
Email: mmf017@shsu.edu
Physical Address: AB IV, 423

The Bachelor of Science in Integrated Studies degree is an interdisciplinary degree that allows students to design a curriculum to meet individual goals by connecting the Texas core curriculum, 3 academic minors, two Integrated Studies courses, and appropriate supporting courses.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/integrated-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

- Students must have at least a 2.0 overall GPA.
- The degree requires 18 distinct hours in each minor, as well as INTG3301 (http://catalog.shsu.edu/search/?search=INTG) and INTG4301 (http://catalog.shsu.edu/search/?search=INTG).
- Meet with a SAM Center (https://www.shsu.edu/centers/sam-center/) advisor to declare your Bachelor of Science in Integrated Studies.

- Bachelor of Science, Major in Integrated Studies (p. 745)
- Bachelor of Science, Major in Integrated Studies: Bioethics and Policy in Healthcare Concentration (p. 748)
- Bachelor of Science, Major in Integrated Studies: Environmental and Occupational Health Concentration (p. 752)
- Bachelor of Science: Major in Integrated Studies: Land and Urban Property Development Concentration (p. 756)
- Bachelor of Science: Major in Integrated Studies: Law, Ethics, and Society Concentration (p. 760)
- Bachelor of Science: Major in Integrated Studies: Legal Writing and Communication Concentration (p. 764)
- Bachelor of Science: Major in Integrated Studies: Social and Data Analytics Concentration (p. 768)
- Bachelor of Science: Major in Integrated Studies: Sustainable Community Management Concentration (p. 771)
- Bachelor of Science: Major in Integrated Studies: Victimology and Mental/Public Health Concentration (p. 775)

Bachelor of Science, Major in Integrated Studies

Available Minors

A list of all available minors for the Bachelor of Science in Integrated Studies degree can be found her (http://catalog.shsu.edu/degree-programs/)e (http://www.shsu.edu/programs/bachelor-of-general-studies/online.html). Certain minor combinations may not be allowed if coursework is duplicative. Please, consult with the BS in Integrated Studies coordinator to ensure that the proposed combination of minors is appropriate. In keeping with the intent of minors to broaden the student's background knowledge, none of the Degree-Specific courses taken may be used to satisfy the requirement of any minor.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies		
Core Curriculum (p. 88)		
Component Area I (Communication) 1st year		6
Component Area II (Mathematics) 1st or 2nd year [1]		3
Component Area III (Life and Physical Science) 1st or 2nd year		8
Component Area IV (Language, Philosophy, and Culture) 1st or 2nd year		3
Component Area V (Creative Arts) 1st or 2nd year		3
Component Area VI (U.S. History) 1st or 2nd year		6
Component Area VII (Political Science/Government) 1st or 2nd year		6
Component Area VIII (Social and Behavioral Sciences) 1st or 2nd year		3
Component Area IX (Component Area Option) 1st or 2nd year		4
Degree Specific Requirements		
Critical Skills Core (select one of the following courses)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HIST 3373	Topics in the History of Science and Medicine	
or HSTY 3345	History of Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [2]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [3]	3
Minor: Required		
Minor Area 1 - 3rd or 4th year [4,5]		18
Minor Area 2 - 3rd or 4th year [4,5]		18
Minor Area 3 - 3rd or 4th year [4,5]		18
Total Hours		**120**

1. MATH 1332 is recommended.
2. These courses are in addition to major/minor requirements.
3. Students must have senior hours, be in good academic standing, and have completed their required CHSS Core course and INTG 3301 before registering for INTG 4301.
4. Some minors require more than 18 semester credit hours.
5. The following minors cannot be paired with this degree program: Minor in Manufacturing Engineering Technology and Minor in Special Education.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Depending on the minors chosen, Core Component Areas 2, 3, 4, 5, 6, 7, 8, 9 (including the 1-hour core component) could double dip from the core and the minors.

Each minor must have 18 unique credits. Depending on the minors, students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, and 24 advanced in-residence hours, INTG 3301 and INTG 4301. Depending on the minors chosen, students may need to take general electives and/or advanced general electives outside of the courses outlined in their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/integrated-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area IV (p. 89)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	3
Component Area VIII (p. 90)	3	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[3]	3
HSTY 1301[3]	3	POLS 2305[4]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	DSR Advanced Elective[9]	6
Critical Skills Core[5, 6]	3	INTG 3301	3
POLS 2306[4]	3	Minor I[7, 8]	3
Minor I[7, 8]	3		
Minor II[7, 8]	3		
	17		**16**

Third Year

Fall	Hours	Spring	Hours
DSR Advanced Elective[9]	3	DSR Advanced Elective[9]	3
Minor I[7, 8]	3	Minor I[7, 8]	3
Minor II[7, 8]	6	Minor II[7, 8]	3
Minor III[7, 8]	3	Minor III[7, 8]	6
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Elective[9]	3	INTG 4301[10]	3
Minor I[7, 8]	3	Minor I[7, 8]	3
Minor II[7, 8]	6	Minor III[7, 8]	6
Minor III[7, 8]	3		
	15		**12**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 Critical Skills Core (select **one** of the following courses): ENGL 3330, ENGL 3377, HIST 3373 or HSTY 3345, PHIL 2303, POLS 3379, SOCI 2399.
6 The course chosen in this block may also satisfy a requirement for a minor.
7 Some minors require more than 18 semester credit hours.
8 The following minors cannot be paired with this degree program: Minor in Manufacturing Engineering Technology and Minor in Special Education.
9 Select 15 advanced elective hours (3000-4000) from related subject areas.

[10] Students must have senior hours, be in good academic standing, and have completed their required Critical Skills Core course and INTG 3301 before registering for INTG 4301.

Notes:

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Depending on the minors chosen, Core Component Areas 2, 3, 4, 5, 6, 7, 8, 9 (including the 1-hour core component) could double dip from the core and the minors.

Each minor must have 18 unique credits. Depending on the minors, students may have to take more than 18 credits to complete the minor.

Some minors require more than 18 semester credit hours.

The following minors cannot be paired with this degree program: Minor in Manufacturing Engineering Technology and Minor in Special Education.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, and 24 advanced in-residence hours and INTG 4301. Depending on the minors chosen, students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Integrated Studies is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Writing expertise.
- Collaborative skills.
- Resourcefulness.

Bachelor of Science, Major in Integrated Studies: Bioethics and Policy in Healthcare Concentration

The BS in Integrated Studies: Bioethics and Policy in Healthcare Concentration combines Health Sciences, Philosophy, and Sociology minors to prepare students for ethical and socially aware careers in healthcare. It equips them to approach a career in healthcare challenges with a balance of ethical considerations and practical solutions. Graduates pursue careers in healthcare administration, public health policy, ethics consultation, patient advocacy, and health education. They manage healthcare operations, ensure compliance with laws and regulations, research and analyze policies, healthcare delivery, and health insurance.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Bioethics and Policy in Healthcare Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication) [1]		6
Component Area II (Mathematics) [2, 3]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Health Sciences [6]		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers	3
HLTH 1366	Lifestyle and Wellness	3
HLTH 2391	Human Diseases	3
Select four courses from the following HLTH Electives:		12
(Six credit hours must be at 3000-4000 level and taken at SHSU.)		
HLTH 2372	Health & Medical Terminology	
HLTH 2383	Multicultural Health Issues	
HLTH 3350	Principles of Public Health	
HLTH 3355	United States Health Care Systems	
HLTH 3361	Health Planning & Evaluation	
HLTH 3380	Drug Use and Abuse	
HLTH 3385	Safety Education	
HLTH 3390	Family Life & Sex Education	
HLTH 3392	Health Communication and Literacy	
HLTH 4365	Health Care Policy	
HLTH 4371	Patient Navigation	
Minor Area II: Philosophy		

PHIL 2303	Critical Thinking	3
or PHIL 2352	Introduction to Contemporary Logic	
Select three courses from the following PHIL Electives:		9
PHIL 3372	Philosophy of Science	
PHIL 4306	Philosophy of Biology	
PHIL 4333	Bioethics	
PHIL 4361	Philosophy of Psychology and Mind	
PHIL 4363	Ethical Theories	
PHIL 4371	Death and Dying	
Select two courses from the following PHIL Advanced Electives:		6
PHIL 3371	Existentialism and Self-Awareness	
PHIL 4372	Theories of Knowledge and Reality	
PHIL 4375	Feminist Philosophies	
PHIL 4377	Philosophy of Race	
Minor Area III: Sociology		
SOCI 1301	Introduction to Sociology	3
or SOCI 2319	Introduction To Ethnic Studies	
SOCI 3370	Research Methods in Sociology	3
SOCI 4344	Sociological Theory	3
Select three courses from the following SOCI Electives		9
SOCI 3324	Social Inequality	
SOCI 3325	Gender And Inequality	
SOCI 3335	Food and Society	
SOCI 3354	Sociology of the Life Course	
SOCI 3365	Sociology Of Health & Illness	
Total Hours		**123**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.
6 Some minors require more than 18 semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Component Area IV (p. 89)	3
Component Area V (p. 90)		3 Component Area IX (p. 91)	3
Component Area VIII (p. 90)		3 ENGL 1302[2]	3
ENGL 1301[2]		3 HSTY 1302[3]	3
HSTY 1301[3]		3 POLS 2305[4]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IX (p. 91)		1 INTG 3301	3
CHSS Core[5, 6]		3 Minor Area I: Health Sciences[7]	6
Minor Area I: Health Sciences[7]		6 Minor Area II: Philosophy	3
POLS 2306[4]		3	
	17		**16**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Health Sciences[7]		6 DSR Advanced Electives[8]	3
Minor Area II: Philosophy		6 Minor Area II: Philosophy	6
Minor Area III: Sociology		3 Minor Area III: Sociology	6
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[8]		6 DSR Advanced Electives[8]	6
Minor Area I: Health Sciences[7]		3 INTG 4301[9]	3
Minor Area II: Philosophy		3 Minor Area III: Sociology	6
Minor Area III: Sociology		3	
	15		**15**

Total Hours: 123

1. MATH 1332 is recommended.
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5. CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
6. The course chosen in this block may also satisfy a requirement for a minor.
7. Some minors require more than 18 semester credit hours.
8. Select 15 advanced elective hours (3000-4000) from related subject areas.
9. Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Integrated Studies: Bioethics and Policy in Healthcare Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Ethical decision-making.
- Health communications.
- Sociocultural health analysis.

Bachelor of Science, Major in Integrated Studies: Environmental and Occupational Health Concentration

The BS in Integrated Studies: Environmental and Occupational Health Concentration combines Environmental, Health, and Safety Management, Environmental Studies, and Health minors to meet emerging industry demands by critically analyzing issues from multiple perspectives, identifying problems, and developing innovative solutions. Students develop versatile and in-demand skills for consulting and project management roles while gaining expertise in environmental issues and public health. Graduates will be ready for careers in manufacturing, construction, environmental consulting, and any industry where workplace safety and compliance are a priority, and in sectors focused on environmental conservation, public health, healthcare management, and policymaking.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Environmental and Occupational Health Concentration		
Core Curriculum (p. 88)		
Core Component Area I (Communication) [1]		6
Core Component Area II (Mathematics) [2, 3]		3
Core Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Environmental, Health, and Safety Management [6]		
ETSM 2310	Introduction to Occupational Safety	3
Environmental, Health, and Safety Management/Industrial Safety Management (ETSM) Advanced Electives		18
Minor Area II: Environmental Studies [6]		
BIOL 1401	Environmental Science	3-4
or GEOG 1300	People, Places, and the Environment	
GEOG 3310	Sustainable Development	3
GEOG 4331	Conservation of Natural Resources	3
or POLS 3395	Environmental Policy	
PHIL 4334	Environmental Ethics	3
or COMS 3393	Environmental Communication	
Select two courses from the following:		6
BIOL 3320	Sustainability & Environment	
or GEOG 3320	Sustainability & Environment	
GEOG 3301	Environmental Geography	
SOCI 4337	Environment And Society	
or SOCI 4334	Sociology Of Disaster	

Select one course from the following:		3
GEOG 3350	Cultural Geography	
GEOG 4356	Urban Geography	
SOCI 3335	Food and Society	
Select one course from the following Prescribed Electives:		3
COMS 3393	Environmental Communication	
ECON 3352	Energy and Environmental Economics	
GEOG 4351	Economic Geography	
GEOG 4357	Population Geography	
GEOL 3326	Environmental Geology	
HLTH 4390	Environmental Health	
PHIL 4334	Environmental Ethics	
POLS 3395	Environmental Policy	
SOCI 4334	Sociology Of Disaster	
SOCI 4337	Environment And Society	
Minor Area III: Health [6]		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers	3
HLTH 1366	Lifestyle and Wellness	3
HLTH 2391	Human Diseases	3
HLTH 3355	United States Health Care Systems	3
HLTH 3385	Safety Education	3
HLTH 4380	Global Health	3
HLTH 4390	Environmental Health	3
Total Hours		**132-133**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.
6 Some minors require more than 18 semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area V (p. 90)	3

Component Area IV (p. 89)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Minor Area I: Environmental, Health, and Safety Management[2]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area VII (p. 90)	3
Component Area IX (p. 91)	4	Component Area VIII (p. 90)	3
CHSS Core[3, 4]	3	INTG 3301	3
Minor Area III: Health[2]	6	Minor Area I: Environmental, Health, and Safety Management[2]	3
		Minor Area II: Environmental Studies[2]	3-4
	16		**15-16**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Environmental, Health, and Safety Management[2]	6	DSR Advanced Electives[5]	3
Minor Area II: Environmental Studies[2]	6	Minor Area I: Environmental, Health, and Safety Management[2]	3
Minor Area III: Health[2]	6	Minor Area II: Environmental Studies[2]	6
		Minor Area III: Health[2]	3
	18		**15**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[5]	6	DSR Advanced Electives[5]	6
Minor Area I: Environmental, Health, and Safety Management[2]		3 INTG 4301[6]	3
Minor Area II: Environmental Studies[2]	6	Minor Area I: Environmental, Health, and Safety Management[2]	3
Minor Area III: Health[2]	3	Minor Area II: Environmental Studies[2]	3
		Minor Area III: Health[2]	3
	18		**18**

Total Hours: 132-133

1 MATH 1332 is recommended.
2 Some minors require more than 18 semester credit hours.
3 CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
4 The course chosen in this block may also satisfy a requirement for a minor.
5 Select 15 advanced elective hours (3000-4000) from related subject areas.
6 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Integrated Studies: Environmental and Occupational Health Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Regulatory compliance and safety program management.
- Environmental and public health systems design.
- Risk assessment and sustainability planning.

Bachelor of Science, Major in Integrated Studies: Land and Urban Property Development Concentration

The BS in Integrated Studies: Land and Urban Property Development Concentration combines Construction Management, Geo-Spatial Science, and Real Estate minors to provide graduates with technical and analytical skills in these complementing fields that allow for better decision-making in site selections, environmental impact assessments, urban planning, as well as the ability to understand market trends, property valuation, and development processes. Graduates will have insights when communicating with stakeholders across different disciplines, including engineers, architects, planners, and real estate professionals, preparing them for various careers, such as project and facilities manager, real estate developer, GIS specialist, construction/urban planner, and sustainability consultant.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Land and Urban Property Development Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication) [1]		6
Component Area II (Mathematics) [2, 3]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Construction Management [6]		
ETCM 1363	Wood Frame Construction	3
ETCM 3368	Concrete/Masonry Construction	3
ETCM 4330	Construction Equipment & Procedures	3
ETCM 4368	Building Materials [7]	3
ETCM 4370	Construction Plans & Documents	3
ETCM 4371	Building Information Modeling	3
ETDD 2363	Architectural Design	3
Minor Area II: Geo-Spatial Science [6]		
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
GEOG 4365	Applied Geographic Information Systems (GIS)	3
Select three of the following applied courses:		9-10
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4367	GIS Programming	
GEOG 4468	Remote Sensing	

Select one of the following Geotechnique Applications courses:		3-4
GEOG 4330	Hydrology and Water Resources [8]	
GEOG 4333	Field Studies	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography [9]	
GEOG 4357	Population Geography [9]	
GEOG 4359	Transportation Geography [9]	
GEOG 4432	Geomorphology [10]	
Minor Area III: Real Estate		
ECON 3373	Urban And Regional Economics [11]	3
REAL 3310	Real Estate Principles	3
REAL 3365	Real Estate Law	3
REAL 4350	Real Estate Debt	3
REAL 4351	Real Estate Equity	3
REAL 4352	Real Estate Market and Development Feasibility Analysis	3
Total Hours		**124-126**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.
6 Some minors require more than 18 semester credit hours.
7 The prerequisite for ETCM 4368 is ETCM 2367 and ETCM 3368. For students in this concentration, the prerequisite of ETCM 2367 will be waived.
8 The prerequisite for GEOG 4330 is (GEOL 1403 or GEOG 2341 or GEOL 1405 or GEOG 4432) and (MATH 1314 or MATH 1342 or MATH 1420).
9 The prerequisite for GEOG 4356, GEOG 4357, and GEOG 4359 is GEOG 2355 or GEOG 2356.
10 The prerequisite for GEOG 4432 is (GEOL 1403 or GEOL 1405 or GEOG 2341) and (MATH 1314 or MATH 1342 or MATH 1420 or MATH 3379).
11 The prerequisite for ECON 3373 is 42 completed hours and ECON 2300 or ECON 2301 or ECON 2302.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in al major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	ENGL 1302	3
Component Area V (p. 90)	3	Component Area III (p. 89)[2]	4
ECON 2300, 2301, or 2302	3	ETCM 1363 (Minor Area I: Construction Management)[6]	3
ENGL 1301	3	HSTY 1302	3
HSTY 1301	3	POLS 2305	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area III (p. 89)[2]	4
Component Area IX (p. 91)[3]	1	INTG 3301	3
Component Area IX (p. 91)	3	Minor Area I: Construction Management[6]	3
CHSS Core[4, 5]	3	Minor Area II: Geo-Spatial Science[6]	3
ETDD 2363 or ETCM 3372 (Minor Area I: Construction Management)[6]	3	POLS 2306	3
GEOG 2464 (Minor Area II: Geo-Spatial Science)[6]	4		
	17		**16**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Construction Management[6]	6	DSR Advanced Electives[7]	3
Minor Area II: Geo-Spatial Science[6]	6	Minor Area I: Construction Management[6]	3
Minor Area III: Real Estate	3	Minor Area II: Geo-Spatial Science[6]	3-4
		Minor Area III: Real Estate	6
	15		**15-16**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[7]	6	DSR Advanced Electives[7]	6
Minor Area I: Construction Management[6]	3	INTG 4301[8]	3
Minor Area II: Geo-Spatial Science[6]	3-4	Minor Area III: Real Estate	6
Minor Area III: Real Estate	3		
	15-16		**15**

Total Hours: 124-126

1. MATH 1332 is recommended.
2. It is recommended that students in this concentration take GEOL 1405 as one of the Core Curriculum required 4-hour courses for Component Area III (Life and Physical Science).
3. One hour of MATH 1410 or MATH 1420 may count for one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4. CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
5. The course chosen in this block may also satisfy a requirement for a minor.
6. Some minors require more than 18 semester credit hours.
7. Select 15 advanced elective hours (3000-4000) from related subject areas.
8. Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in al major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Integrated Studies: Land and Urban Property Development Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Integrated technical and analytical expertise.
- Cross-disciplinary communication and project management.
- Proficiency in industry tools and career readiness.

Bachelor of Science, Major in Integrated Studies: Law, Ethics, and Society Concentration

The BS in Integrated Studies: Law, Ethics, and Society Concentration combines Criminal Justice, Philosophy, and Psychology minors to provide students with the ability to analyze complex legal and philosophical arguments and a strong foundation in ethical theories needed to understand the law and its application. Emphasis on research, writing, and interpersonal skills prepares graduates for law enforcement, victim advocacy, rehabilitation, and policy analysis careers. The program fosters a deep understanding of justice systems and human dynamics, enabling students to support diverse populations, assess offenders, and contribute to ethical practices and public safety. It also provides a strong foundation for graduate and professional studies.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Law, Ethics, and Society Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication) [1]		6
Component Area II (Mathematics) [2, 3]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Criminal Justice		
CRIJ 2361	Introduction To The Criminal Justice System	3
CRIJ 2362	Criminology	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 4385	Criminal Justice and Social Diversity	3
Select two courses from the following:		6
CRIJ 3340	Gender and Crime	
CRIJ 3362	White Collar Crime	
CRIJ 3363	Violent Offenders	
CRIJ 3364	Special Offenders and Special Needs	
CRIJ 4330	Law And Society	
CRIJ 4385	Criminal Justice and Social Diversity	
Minor Area II: Philosophy		
PHIL 2303	Critical Thinking	3
or PHIL 2352	Introduction to Contemporary Logic	
Select three courses from the following:		9
PHIL 4333	Bioethics	

PHIL 4336	Philosophy of Law	
PHIL 4374	Philosophy of Crime & Justice	
PHIL 4375	Feminist Philosophies	
PHIL 4377	Philosophy of Race	
Select two courses from the following:		6
PHIL 3365	Modern Philosophy	
PHIL 3373	American Philosophy	
PHIL 4334	Environmental Ethics	
Minor Area III: Psychology		
PSYC 1301	Introduction To Psychology	3
Select one course from the Experimental Block:		3
PSYC 3333	Physiological Psychology	
PSYC 3336	Sensation/Perception	
PSYC 3337	Cognition	
PSYC 3382	Comparative Psychology	
PSYC 3391	Psychopharmacology	
PSYC 4332	Learning	
PSYC 4392	Industrial/Organizational Psychology	
Select one course from the Personality-Social-Development Block:		3
PSYC 3365	Close Relationships	
PSYC 3374	Development Psychology	
PSYC 3375	Psychopathology and Family Dynamics	
PSYC 3381	Social Psychology	
PSYC 4331	Personality	
PSYC 4334	Applied Social Psychology	
PSYC 4374	Psychology of the Elderly	
Select one course from the Clinical-Adjustment Block:		3
PSYC 2315	Psychology Of Adjustment	
PSYC 3331	Abnormal Psychology	
PSYC 3334	Human Sexuality	
PSYC 3383	Psychology And The Law	
PSYC 3385	Health Psychology	
Select two courses from the following advanced courses:		6
PSYC 3331	Abnormal Psychology	
PSYC 3375	Psychopathology and Family Dynamics	
PSYC 3381	Social Psychology	
PSYC 3383	Psychology And The Law	
PSYC 4391	Divorce: Psychological Impact	
Total Hours		**120**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area IV (p. 89)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	3
Component Area VIII (p. 90)	3	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[3]	3
HSTY 1301[3]	3	POLS 2305[4]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	INTG 3301	3
CHSS Core[5, 6]	3	Minor Area I: Criminal Justice	6
Minor Area I: Criminal Justice	3	Minor Area II: Philosophy	3
POLS 2306[4]	3		
	14		**16**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Criminal Justice	6	DSR Advanced Electives[7]	3
Minor Area II: Philosophy	6	Minor Area II: Philosophy	6
Minor Area III: Psychology	3	Minor Area III: Psychology	6
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[7]	6	DSR Advanced Electives[7]	6
Minor Area I: Criminal Justice	3	INTG 4301[8]	3
Minor Area II: Philosophy	3	Minor Area III: Psychology	6
Minor Area III: Psychology	3		
	15		**15**

Total Hours: 120

1. MATH 1332 is recommended.
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5. CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
6. The course chosen in this block may also satisfy a requirement for a minor.
7. Select 15 advanced elective hours (3000-4000) from related subject areas.
8. Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

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The BS in Integrated Studies: Law, Ethics, and Society Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Ethical and analytical decision making.
- Behavioral insight and communication.
- Legal research and policy development.

Bachelor of Science, Major in Integrated Studies: Legal Writing and Communication Concentration

The BS in Integrated Studies: Legal Writing and Communication Concentration combines the Undergraduate Certificate in Communication for Legal and Criminal Justice Professionals, the Minor in Legal Studies, and the Minor in Technical and Professional Writing to provide graduates with a robust skill set tailored for legal and criminal justice settings. These graduates will be adept at identifying and applying communication theories and strategic principles essential for effective interaction within the criminal justice system. In addition to a career in law assisting lawyers, legislators, and court administrators, students' training in strategic communication principles will position them in public policy, public administration, compliance officers, and non-profit advocacy careers.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Legal Writing and Communication Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication) [1]		6
Component Area II (Mathematics) [2, 3]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Communication for Legal and Criminal Justice Professionals		
COMS 2386	Interpersonal Communication	3
COMS 3370	Intercultural Communication	3
COMS 3371	Conflict, Negotiation, and Resolution	3
COMS 3375	Strategic Organizational Communication	3
COMS 3379	Freedom of Speech and Civic Communication	3
COMS 4366	Deceptive Communication	3
Minor Area II: Legal Studies		
POLS 3334	Judicial Systems	3
POLS 4334	Constitutional Law I: Civil Rights and Liberties	3
POLS 4335	Constitutional Law II: Gov Powers & State-Federal Relations	3
Select one law-related skills elective from the following:		3
PHIL 2303	Critical Thinking	
PHIL 2352	Introduction to Contemporary Logic	
Select two substantive legal content courses from the following:		6
BUAD 3338	Entrepreneurial Law	
BUAD 3355	Business Law	

BUAD 3360	Human Resources Management Law	
BUAD 4340	International Business Law	
CRIJ 4330	Law And Society	
CRIJ 4332	Legal Aspects Of Corrections	
CRIJ 4394	Constitutional Issues In Law Enforcement	
HSTY 3373	Black Civil Rights Movement	
KINE 3365	Sport Law	
PHIL 4336	Philosophy of Law	
POLS 3338	Victims' Rights, Politics, and Policy	
POLS 3372	Contemporary Political Theory	
POLS 3385	International Law and Organizations	
POLS 4081	Problems in Political Science	
POLS 4383	International Human Rights	
PSYC 3383	Psychology And The Law	
REAL 3365	Real Estate Law	
SCST 3380	Law and Ethics in Homeland Security	
Minor Area III: Technical and Professional Writing		
ENGL 3330	Introduction to Technical Writing	3
ENGL 3377	Argument and Persuasion	3
ENGL 3378	Document Design	3
ENGL 4330	Writing in the Professions	3
ENGL 4335	Studies in Rhetoric	3
ENGL 4340	Professional Style and Editing	3
Total Hours		**120**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Component Area IV (p. 89)	3
Component Area V (p. 90)		3 Component Area IX (p. 91)	3
Component Area VIII (p. 90)		3 ENGL 1302[2]	3
ENGL 1301[2]		3 HSTY 1302[3]	3

HSTY 1301[3]	3	POLS 2305[4]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	INTG 3301	3
CHSS Core[5, 6]	3	Minor Area I: Communication for Legal and Criminal Justice Professionals	3
Minor Area I: Communication for Legal and Criminal Justice Professionals	3	Minor Area II: Legal Studies	3
POLS 2306[4]	3	Minor Area III: Technical and Professional Writing	3
	14		**16**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Communication for Legal and Criminal Justice Professionals	6	DSR Advanced Electives[7]	3
Minor Area II: Legal Studies	6	Minor Area I: Communication for Legal and Criminal Justice Professionals	3
Minor Area III: Technical and Professional Writing	3	Minor Area II: Legal Studies	6
		Minor Area III: Technical and Professional Writing	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[7]	6	DSR Advanced Electives[7]	6
Minor Area I: Communication for Legal and Criminal Justice Professionals	3	INTG 4301[8]	3
Minor Area II: Legal Studies	3	Minor Area I: Communication for Legal and Criminal Justice Professionals	3
Minor Area III: Technical and Professional Writing	3	Minor Area III: Technical and Professional Writing	3
	15		**15**

Total Hours: 120

1. MATH 1332 is recommended.
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5. CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
6. The course chosen in this block may also satisfy a requirement for a minor.
7. Select 15 advanced elective hours (3000-4000) from related subject areas.
8. Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Integrated Studies: Legal Writing and Communication Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Legal and policy communication expertise.
- Strategic advocacy writing.
- Information synthesis and legal research.

Bachelor of Science, Major in Integrated Studies: Social and Data Analytics Concentration

The BS in Integrated Studies: Social and Data Analytics Concentration combines the Economics, Political Science, and Statistics and Data Science minors to provide students with skills in analytical sciences and statistics, such as data collection, analysis, visualization, and interpretation. These skills can be applied across various industries that require data collection and analysis to help organizations make informed decisions, develop policies based on data-driven insights, conduct market analysis and reporting, research market conditions to identify potential sales opportunities, and analyze economic issues using statistical methods. Students will learn to use data to develop strategies for business growth, understand human behavior and societal trends, apply advanced analytics and machine learning, and solve complex problems.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Social and Data Analytics Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication) [1]		6
Component Area II (Mathematics) [2, 3]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Economics		
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics	3
Select any three ECON Advanced Elective (3000- or 4000-level) courses		9
Select any ECON Advanced Elective (4000-level) course		3
Minor Area II: Political Science		
POLS 2305	American Government	3
POLS 2306	Texas Government	3
Select any four POLS Advanced Elective (3000- or 4000-level) courses		12
Minor Area III: Statistics and Data Science		
STAT 3379	Statistical Methods in Practice	3
or STAT 3390	Probability and Statistics for Sciences	
STAT 3385	Statistical Methods for Data Science	3
STAT 4374	Regression Modeling & Analysis	3
STAT 4390	Introduction to Statistical Learning	3
Select two courses from the following STAT Electives:		6
STAT 3380	Statistical Design and Analysis of Experiments	

STAT 3381	Sample Survey Methods
STAT 3382	Introduction to Statistical Computing
STAT 4370	Special Topics in Statistics
STAT 4371	Theory and Applications of Probability and Statistics I
STAT 4372	Theory and Applications of Probability and Statistics II
STAT 4373	Nonparametric Statistics
STAT 4375	Quality Control & Reliability
STAT 4376	Time Series and Forecasting
STAT 4377	Introduction to Applied Bayesian Analysis
Total Hours	**120**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area IV (p. 89)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	3
Component Area VIII (p. 90)	3	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[3]	3
HSTY 1301[3]	3	POLS 2305[4]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	INTG 3301	3
CHSS Core[5, 6]	3	Minor Area I: Economics	3
Minor Area I: Economics	3	Minor Area II: Political Science	3
POLS 2306[4]	3	Minor Area III: Statistics and Data Science	3
	14		**16**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Economics	6	DSR Advanced Electives[7]	3
Minor Area II: Political Science	6	Minor Area I: Economics	3

Minor Area III: Statistics and Data Science	3	Minor Area II: Political Science	6
		Minor Area III: Statistics and Data Science	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[7]	6	DSR Advanced Electives[7]	6
Minor Area I: Economics	3	INTG 4301[8]	3
Minor Area II: Political Science	3	Minor Area I: Economics	3
Minor Area III: Statistics and Data Science	3	Minor Area III: Statistics and Data Science	3
	15		**15**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
6 The course chosen in this block may also satisfy a requirement for a minor.
7 Select 15 advanced elective hours (3000-4000) from related subject areas.
8 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

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The BS in Integrated Studies: Social and Data Analytics Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Data-driven policy and economic analysis.
- Quantitative research and predictive modeling.
- Evidence-based solutions for business growth, public policy, and economic planning across diverse industries.

Bachelor of Science, Major in Integrated Studies: Sustainable Community Management Concentration

The BS in Integrated Studies: Sustainable Community Management Concentration combines minors in Accounting, Geo-Spatial Science, and Public Administration and Public Policy to provide students with a well-rounded education that integrates essential public administration, spatial analysis, and financial management elements. Graduates can pursue career paths that involve researching and developing policies to tackle social, economic, and environmental challenges, utilizing geospatial data to design and implement urban development projects, coordinating disaster response and crisis management efforts, managing non-profit organizations to fulfill their missions, analyzing environmental data to provide recommendations for sustainable practices, managing budgets, overseeing logistics and supply chain operations to ensure the efficient delivery of goods and services, and overseeing fire services to ensure effective emergency response.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Sustainable Community Management Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication) [1]		6
Component Area II (Mathematics) [2, 3]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Accounting		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
ACCT 3313	Intermediate Accounting I	3
Select nine advanced (3000 level or above) hours in ACCT, excluding ACCT 3304 and ACCT 4379		9
Minor Area II: Geo-Spatial Science [6]		
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
GEOG 4365	Applied Geographic Information Systems (GIS)	3
Select three of the following applied courses:		9-10
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4367	GIS Programming	
GEOG 4468	Remote Sensing	
Select one of the following Geotechnique Applications courses:		3-4
GEOG 4330	Hydrology and Water Resources	

GEOG 4333	Field Studies	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4432	Geomorphology	
Minor Area III: Public Administration and Public Policy		
POLS 2305	American Government	3
POLS 2306	Texas Government	3
POLS 3302	Introduction to Public Policy	3
POLS 3366	Public Administration	3
Select six credit hours from the following:		6
POLS 3338	Victims' Rights, Politics, and Policy	
POLS 3339	Nonprofit Organizations	
POLS 3391	Government Organization and Management	
POLS 3392	Economic Policy	
POLS 3393	Social Policy	
POLS 3395	Environmental Policy	
POLS 4081	Problems in Political Science	
POLS 4094	Political Science Internship	
POLS 4095	Independent Studies	
Total Hours		**121-123**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.
6 Some minors require more than 18 semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area IV (p. 89)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	3
Component Area VIII (p. 90)	3	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[3]	3

HSTY 1301[3]	3	POLS 2305[4]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	Component Area III (p. 89)	4
Component Area III (p. 89)	4	INTG 3301	3
CHSS Core[5, 6]	3	Minor Area I: Accounting	3
Minor Area I: Accounting	3	Minor Area II: Geo-Spatial Science[7]	4
POLS 2306[4]	3	Minor Area III: Public Administration and Public Policy	3
	14		**17**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Accounting	6	DSR Advanced Electives[8]	3
Minor Area II: Geo-Spatial Science[7]	6-7	Minor Area I: Accounting	3
Minor Area III: Public Administration and Public Policy	3	Minor Area II: Geo-Spatial Science[7]	6-7
		Minor Area III: Public Administration and Public Policy	3
	15-16		**15-16**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[8]	6	DSR Advanced Electives[8]	6
Minor Area I: Accounting	3	INTG 4301[9]	3
Minor Area II: Geo-Spatial Science[7]	3	Minor Area I: Accounting	3
Minor Area III: Public Administration and Public Policy	3	Minor Area III: Public Administration and Public Policy	3
	15		**15**

Total Hours: 121-123

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
6 The course chosen in this block may also satisfy a requirement for a minor.
7 Some minors require more than 18 semester credit hours.
8 Select 15 advanced elective hours (3000-4000) from related subject areas.
9 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

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The BS in Integrated Studies: Sustainable Community Management Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Policy and financial management for public impact.
- Geo-spatial analysis for strategic planning.
- Cross-sector operational coordination.

Bachelor of Science, Major in Integrated Studies: Victimology and Mental/Public Health Concentration

The BS in Integrated Studies: Victimology and Mental/Public Health Concentration combines Health, Psychology, and Victim Studies minors to give students an understanding of how victimization impacts mental and physical health and the myriad ways experiencing or witnessing violence contributes to psychological and physical health problems and outcomes. Students will be prepared for diverse career paths, which include community victim services, public health agencies, entry-level mental health treatment and education programs, court accompaniment for victim support, treatment options for children and families in violent situations, and advocacy for non-profit victim services.

Code	Title	Hours
Bachelor of Science, Major in Integrated Studies: Victimology and Mental/Public Health Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication) [1]		6
Component Area II (Mathematics) [2, 3]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts) [2]		3
Component Area VI (U.S. History) [2]		6
Component Area VII (Political Science/Government) [2]		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
CHSS Core (Select one course from the following:)		3
ENGL 3330	Introduction to Technical Writing	
ENGL 3377	Argument and Persuasion	
HSTY 3345	History of Medicine	
or HIST 3373	Topics in the History of Science and Medicine	
PHIL 2303	Critical Thinking	
POLS 3379	Research and Writing in Political Science	
SOCI 2399	Writing in Sociology	
Select 15 advanced elective hours (3000-4000) from related subject areas [4]		15
Major: Foundation		
INTG 3301	Critical Approaches to Integrated Studies	3
INTG 4301	Integrated Studies Capstone [5]	3
Minor: Required		
Minor Area I: Health [6]		
HLTH 1360	The Fundamentals of Health Promotion and Health Careers	3
HLTH 1366	Lifestyle and Wellness	3
HLTH 2391	Human Diseases	3
Select four courses from the following HLTH Electives:		12
HLTH 2372	Health & Medical Terminology	
HLTH 2383	Multicultural Health Issues	
HLTH 3350	Principles of Public Health	
HLTH 3355	United States Health Care Systems	
HLTH 3361	Health Planning & Evaluation	
HLTH 3380	Drug Use and Abuse	
HLTH 3385	Safety Education	
HLTH 3390	Family Life & Sex Education	
HLTH 3392	Health Communication and Literacy	
HLTH 4365	Health Care Policy	
HLTH 4371	Patient Navigation	
Minor Area II: Psychology		
PSYC 1301	Introduction To Psychology	3

Select one course from the Experimental Block:		3
PSYC 3333	Physiological Psychology	
PSYC 3336	Sensation/Perception	
PSYC 3337	Cognition	
PSYC 3382	Comparative Psychology	
PSYC 3391	Psychopharmacology	
PSYC 4332	Learning	
PSYC 4392	Industrial/Organizational Psychology	
Select one course from the Personality-Social Development Block:		3
PSYC 3365	Close Relationships	
PSYC 3374	Development Psychology	
PSYC 3375	Psychopathology and Family Dynamics	
PSYC 3381	Social Psychology	
PSYC 4331	Personality	
PSYC 4334	Applied Social Psychology	
PSYC 4374	Psychology of the Elderly	
Select one course from the Clinical Adjustment Block:		3
PSYC 2315	Psychology Of Adjustment	
PSYC 3331	Abnormal Psychology	
PSYC 3334	Human Sexuality	
PSYC 3383	Psychology And The Law	
PSYC 3385	Health Psychology	
PSYC Advanced courses (Select any two 3000-4000 level courses from the Personality-Social Development and/or Clinical Adjustment Blocks)		6
Minor Area III: Victim Studies		
VCST 3350	Victimology	3
VCST 4383	Family Violence	3
Select four courses from the following VCST Electives:		12
VCST 3341	Aging, Crime and Victimization	
VCST 3351	Victim Service Delivery	
VCST 4338	Child Abuse And Neglect	
VCST 4351	Trauma and Crisis Intervention	
VCST 4370	Interviewing & Counseling	
VCST 4390	Violence Against Women	
Total Hours		**123**

1 Taken first year.
2 Taken first or second year.
3 MATH 1332 is recommended.
4 These courses are in addition to major/minor requirements.
5 Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.
6 Some minors require more than 18 semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area IV (p. 89)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	3
Component Area VIII (p. 90)	3	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[3]	3
HSTY 1301[3]	3	POLS 2305[4]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	INTG 3301	3
CHSS Core[5, 6]	3	Minor Area I: Health[7]	6
Minor Area I: Health[7]	6	Minor Area II: Psychology	3
POLS 2306[4]	3		
	17		**16**

Third Year

Fall	Hours	Spring	Hours
Minor Area I: Health[7]	6	DSR Advanced Electives[8]	3
Minor Area II: Psychology	6	Minor Area II: Psychology	6
Minor Area III: Victim Studies	3	Minor Area III: Victim Studies	6
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
DSR Advanced Electives[8]	6	DSR Advanced Electives[8]	6
Minor Area I: Health[7]	3	INTG 4301[9]	3
Minor Area II: Psychology	3	Minor Area III: Victim Studies	6
Minor Area III: Victim Studies	3		
	15		**15**

Total Hours: 123

1. MATH 1332 is recommended.
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5. CHSS Core (Select one of the following courses): ENGL 3330, ENGL 3377, HSTY 3345 or HIST 3373, PHIL 2303, POLS 3379, SOCI 2399.
6. The course chosen in this block may also satisfy a requirement for a minor.
7. Some minors require more than 18 semester credit hours.
8. Select 15 advanced elective hours (3000-4000) from related subject areas.
9. Students must have senior hours, be in good academic standing, and have completed the required CHSS Core course and INTG 3301 before registering for INTG 4301.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Core Component Areas II, III, IV, V, VI, VII, VIII, and IX (including the one credit hour requirement) could double dip from the core and the minors.

Each minor must have 18 unique credits. Students may have to take more than 18 credits to complete the minor.

Graduation requirements include completing all course requirements along with completing at least 120 hours, 42 advanced hours, 24 advanced in-residence hours, and INTG 4301. Students may need to take general electives and/or advanced general electives outside of courses outlined on their degree plan to meet those requirements.

Students must earn a grade of "C" or better in INTG 3301 and INTG 4301.

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The BS in Integrated Studies: Victimology and Mental/Public Health Concentration is designed to provide graduates with the following marketable skills:

- Integration of diverse fields and perspectives.
- Innovative problem-solving abilities.
- Flexibility and adaptability.
- Victim-centered support.
- Program development and policy evaluation.
- Integrated case management and community engagement.

Department of Communication Studies

Chair: Dr. Frances E. Brandau (scm_feb@shsu.edu) (936) 294-1356

Information: (936) 294-1497; Suite 410 College of Humanities and Social Sciences Building (CHSS)

Website: Department of Communication Studies (http://www.shsu.edu/commstudies/)

Communication Studies is the modern heir to one of the world's oldest disciplines. The connection between thought and language is fundamental. This academic discipline that examines how individuals and groups create, share, and interpret messages across a variety of contexts, and channels. This field covers a wide range of communication, including interpersonal, group, intercultural, family, public speaking, and mediated communication. By studying Communication, students gain a deep understanding of how effective communication influences relationships, shapes culture, impacts public perception, and drives organizational success.

Mission

The Communication Studies program is committed to equipping students with the interpersonal communication skills essential for success in today's diverse and interconnected world. Our mission is to develop a deep understanding of human communication, enabling students to navigate and influence both personal and professional relationships.

Through a blend of theory, research, and application, students learn to engage thoughtfully in a wide variety of communication contexts. The program emphasizes the development of critical thinking, emotional intelligence, and cultural awareness, enabling graduates to adapt to the rapidly changing world.

We are committed to preparing students for success by developing their skills in speaking, listening, collaboration, and leadership, while also strengthening their ability to navigate and resolve interpersonal communication challenges.

Highlights

The Department of Communication Studies offers a supportive environment for students to explore the study of communication, with distinguished faculty who are highly invested in each student's academic success. The department fosters a collaborative atmosphere, where faculty work together and engage in interdisciplinary research projects with colleagues from other departments. Both graduate and undergraduate students have opportunities to conduct research with their faculty mentors.

The department's state-of-the-art research laboratory further enhances the research experience. The lab features high-resolution video recording and playback capabilities, a 55-inch monitor, an ultra-low temperature freezer for research sample preservation, and a dedicated support room equipped with multiple computers for monitoring a variety of social science research projects.

Suggested Minors

There is no preferred minor for Communication Studies. Students should select a minor that suits their interests and career needs. Common minors include English, Political Science, Spanish, Psychology, Criminal Justice, Human Services, Sociology, Marketing, and General Business.

Career Opportunities

Communication Studies majors develop a diverse set of marketable skills that are highly sought after in today's job market, such as:

- Effective Interpersonal Communication
- Public Speaking and Presentation Skills
- Critical Thinking and Problem-Solving
- Leadership and Teamwork
- Negotiation and Conflict Resolution
- Persuasion and Influence
- Strategic Communication
- Cross-Cultural Communication
- Group Communication and Facilitation

These competencies make Communication Studies graduates versatile, adaptable, and highly sought-after in a wide range of professional fields, from business and healthcare to law, education, human relations, public advocacy, corporate communication and training, government relations, and public relations. The ability to communicate clearly and effectively is a key asset in virtually every profession, making Communication Studies a versatile and valuable major.

Curriculum

Required Courses for Major

Communication Studies offers both the Bachelor of Arts (B. A.) and Bachelor of Science (B. S.) degree options. The B. A. option requires 14 hours of a foreign language plus a Philosophy course, while the B.S. option instead requires 8 hours of natural science plus a math/statistics or computer science course beyond the core curriculum science requirement.

Students choosing to pursue a Bachelor of Arts degree with a major in Communication Studies must complete at least 30 hours of credit in Communication Studies (COMS) courses, including at least 9 hours of advanced courses and 6 hours of elective courses in the program. To satisfy the foreign language requirement, all hours must be taken in the same language.

If students choose the Bachelor of Science degree option they must complete at least 30 hours of credit in Communication Studies courses, including at least 9 hours of advanced courses and 6 hours of elective courses in the program.

All students must take the following courses:

Code	Title	Hours
Required Courses		
COMS 1361	Public Speaking	3
COMS 2331	Introduction - Communication Theory & Research	3
COMS 2386	Interpersonal Communication	3
COMS 4381	Communication Theory	3
12 hours Advanced COMS credits		12
6 hours COMS elective credits		6
Total Hours		**30**

COMS 2382 does not count toward the 30 hour requirement for majors.

- Bachelor of Arts, Major in Communication Studies (p. 783)
- Bachelor of Science, Major in Communication Studies (p. 785)
- Undergraduate Certificate in Communication for Health and Social Care Professionals (p. 788)
- Undergraduate Certificate in Communication for Legal and Criminal Justice Professionals (p. 790)
- Undergraduate Certificate in Communication for Sport Professionals (p. 791)
- Minor in Communication Studies (p. 792)

Student Organizations

Students may take advantage of the department's student organization, *CommuniKats*. The department is also home to the Lambda Beta chapter of Lambda Pi Eta, the official honor society of the National Communication Association.

Internships

The department offers internship opportunities for qualified students through COMS 4378.

Scholarships

The Department of Communication Studies offers several scholarships. Most scholarship deadlines are in March for the following academic year at: Scholarships4Kats (https://www.shsu.edu/dept/financial-aid/scholarships/).

Honor Society

Lambda Pi Eta (LPH) is the National Communication Association's official honor society at four-year colleges and universities. LPH has more than 500 active chapters at four-year colleges and universities nationwide.

LPH represents what Aristotle described in *Rhetoric* as three ingredients of persuasion: logos (Lambda), meaning logic; pathos (Pi), relating to emotion; and ethos (Eta), defined as character credibility and ethics.

Learn more at https://www.natcom.org/student-organizations/lambda-pi-eta

Director/Chair: **Frances Elizabeth Brandau**

Carlton G Abernathy, MA (stdcga11@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; MA, Texas State Univ-San Marcos; BA, Sam Houston State University

Michael I Arrington, PHD (mia016@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of Southern Mississippi

Tamara Sue Arrington, MA (txa041@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, The University of Memphis; BA, Univ of Florida

Richard S Bello, PHD (scm_rsb@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, LSU & A&M College; MA, LSU & A&M College; BA, LSU & A&M College

Frances Elizabeth Brandau, PHD (scm_feb@shsu.edu), *Professor and Chair of Communication Studies*, *Department of Communication Studies*, PHD, LSU & A&M College; MA, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Allyzah Allene De Galicia Cabugao, MA (adc080@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Univ of Houston-Main

Yixin Chen, PHD (cindychen@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, University at Buffalo, Suny; MA, Univ of Texas-El Paso; ME, Huaqiao University; BE, Huaqiao University

Rebekah Melanie Chiasson, PHD (rmc080@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, West Virginia University; MA, Northern Illinois Un; BA, Keene State College

Jennifer Sherry Coppock, MA (jsn019@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Univ of Houston-Main

Bryan Michael Corbin, EDD (bmc108@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, EDD, Southwestern College; MA, Western New Mexico University; MPW, Chatham College; BA, California St Un-Fullerton

Lisa Joanne Dahlgren, PHD (lxv024@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; MA, Univ of Hawaii At Manoa; BA, Univ of Hawaii At Manoa

Kristen Karnes Hester, MA (kck023@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Houston Christian University; BA, Houston Christian University

Susan Lee Honeywell, MA, *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Univ of Texas At Tyler; BS, Univ of Texas At Tyler

Dena Ruth Horne, MA (drh022@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BS, Sam Houston State University

Caleb George Hubbard, PHD (cgh034@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Oklahoma-Norman; MA, West Texas A&M State Univ; BS, West Texas A&M State Univ

Colton Ellis Krawietz, PHD (cek043@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Texas At Austin; MED, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, LSU & A&M College

Anna Hommadova Lu, PHD (anyalu@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; PHD, University of Tsukuba; MA, University of Tsukuba; BA, Minnesota State Un-Moorhead

Floyd Henry McConnell, MA (fhm002@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Stephen F Austin University; BA, Texas A&M University

Nilam Patel, MA (nxp019@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BS, Rice University

Victoria Sandoval, MA (vxs031@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Sam Houston State University

Margaret Garnett Smallwood, MA (mgs043@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; MBA, Univ of Texas At Dallas; BA, Univ of Calif-Santa Barbara

Anne Bennett Cook Smithson, PHD (abs055@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, George Mason University; JD, Northern Kentucky; MA, Georgetown University; BA, Univ of Kentucky

Terry Mark Thibodeaux, PHD (scm_tmt@shsu.edu), *Lecturer of Communication Studies; Professor Emeritus*, *Department of Communication Studies*, PHD, Univ of Southern Mississippi; MED, McNeese State University; BA, McNeese State University

Shelby Alverson Villarreal, MA (sna013@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Texas A&M University

Michesha Sherrelle Washington, MA (msk017@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Texas Southern University; BA, Texas State Univ-San Marcos

Melinda Rachelle Weathers, PHD (mweathers@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, George Mason University; MA, Univ of Houston-Main; BA, Texas A&M University

Kelly Lynn Matheney Weikle, PHD (klw121@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, Ohio University; MA, Ohio University; MMC, Univ of S Carolina-Columbia; BSJ, West Virginia University

Shuangyue Zhang, PHD (sxz002@shsu.edu), *Professor of Communication Studies*, *Department of Communication Studies*, PHD, Ohio State University; MA, Kent State University; MA, Shandong University; BA, Shandong Normal University

Bachelor of Arts, Major in Communication Studies

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-communication-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Communication Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
PHIL Elective		3
ARTS, DANC, MUSI, or THEA		3
Foreign Language (one field) [2]		14
Major: Foundation		
COMS 1361	Public Speaking [4]	3
COMS 2331	Introduction - Communication Theory & Research	3
COMS 2386	Interpersonal Communication [3]	3
COMS 4381	Communication Theory	3
Major: Prescribed Electives		
COMS Advanced Electives		12
COMS General Electives		6
Minor: Required [5]		
Minor		18
Electives: General		
Electives		13
Total Hours		**120**

1 MATH 1332 or MATH 1342 is recommended.

2 WOLC 2311 and WOLC 2312 satisfy Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

3 If COMS 2386 is used to satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Science) addition hours will be needed to reach the minimum total semester credit hours of 120.

4 If COMS 1361 is used to satisfy 3 semester credit hours of the Core Curriculum requirement for Component Area IX (Core Component Option) additional hours will be needed to reach the minimum total semester credit hours of 120.

5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Minor and elective hours should be chosen with the university requirement of 42 advanced hours in mind.

COMS 2382 does not count towards the requirement for a major. Students pursuing a major should take COMS 1361.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-communication-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	COMS 2331	3
COMS 1361[2]	3	ENGL 1302[3]	3
ENGL 1301[3]	3	Foreign Language 1412[4]	4
Foreign Language 1411[4]	4	HSTY 1302[5]	3
HSTY 1301[5]	3		
	16		**13**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
COMS 2386[6]	3	Component Area V (p. 90)	3
Foreign Language 2311[4,7]	3	COMS General Elective	3
POLS 2305[8]	3	Foreign Language 2312[4,7]	3
		POLS 2306[8]	3
	13		**16**

Third Year

Fall	Hours	Spring	Hours
ARTS, DANC, MUSI, or THEA	3	COMS Advanced Elective	6
COMS Advanced Elective	6	COMS 4381	3
Minor[9]	3	Minor[9]	6
PHIL Elective	3		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Electives	13
Component Area IX (p. 91)	4	Minor[9]	3
COMS General Elective	3		
Minor[9]	6		
	16		**16**

Total Hours: 120

1. MATH 1332 or MATH 1342 is recommended
2. If COMS 1361 is used to satisfy 3 semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) additional hours will be needed to reach the minimum total semester credit hours of 120.
3. Satisfies Core Curriculum requirement for Component Area I (Communication).
4. Four courses in one language required.
5. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6. If COMS 2386 is used to fulfill Core Curriculum requirements, additional hours will be needed to reach the minimum total semester credit hours of 120.
7. WOLC 2311 and WOLC 2312 satisfy Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
8. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
9. All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Minor and elective hours should be chosen with the university requirement of 42 advanced hours in mind.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Communication Studies is designed to provide graduates with the following marketable skills:

- Professional oral and written communication.
- Effective Presentation skills.
- Research and analytical skills.
- Evaluation of sources and information validity.
- Data synthesis.
- Critical thinking and the ability to compare and contrast information.
- Multi-cultural and diversity competencies.
- Conflict management and resolution.
- Interpersonal communication.
- Listening skills.
- Leadership and teamwork.
- Problem solving.
- Ethical communication.

Bachelor of Science, Major in Communication Studies

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-communication-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Communication Studies		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
MATH, STAT, or COSC Elective [4]		3
Social Sciences (in addition to Core) [5, 6]		6
Major: Foundation		
COMS 1361	Public Speaking [3]	3
COMS 2331	Introduction - Communication Theory & Research	3
COMS 2386	Interpersonal Communication [2]	3
COMS 4381	Communication Theory	3
Major: Prescribed Electives		
COMS Advanced Electives		12
COMS Non-Advanced Electives		6
Electives: General		
General Electives		21
Minor: Required [7]		
Minor		18
Total Hours		**120**

1 MATH 1332 or MATH 1342 is recommended.
2 If COMS 2386 is used to fulfill Core Curriculum requirements additional hours will be needed to reach the minimum total semester credit hours of 120.
3 If COMS 1361 is used to fulfill Core Curriculum requirements additional hours will be needed to reach the minimum total semester credit hours of 120.
4 Course cannot double dip with Core Curriculum.
5 Choose six hours from the list of Social Sciences courses in the table below.
6 If course(s) are used to satisfy minor requirements, additional hours will be needed to reach the minimum total semester credit hours of 120
7 All minors can be paired with this degree program.

Code	Title	Hours
Social Sciences [5]		**6**
Choose two courses from the list below:		
ECON 2300	Introduction To Economics	
PHIL 2303	Critical Thinking	
PHIL 2306	Contemporary Moral Issues	
POLS 2304	Introduction to Political Science	
PSYC 1301	Introduction To Psychology	
PSYC 2315	Psychology Of Adjustment	
PSYC 3334	Human Sexuality	
SOCI 1301	Introduction to Sociology	
SOCI 3324	Social Inequality	
SOCI 3341	Marriage And The Family	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Minor and Elective hours should be chosen with the university requirement of 42 advanced hours in mind.

COMS 2382 does not count towards the requirement for a major. Students pursuing a major should take COMS 1361.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-communication-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Component Area IX (p. 91)	1
Component Area III (p. 89)		4 Component Area III (p. 89)	4
COMS 1361[2]		3 COMS 2331	3
ENGL 1301[3]		3 ENGL 1302[3]	3
HSTY 1301[4]		3 HSTY 1302[4]	3
	16		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area VIII (p. 90)	3
COMS 2386[5]		3 Component Area IX (p. 91)	3
General Electives		3 MATH, STAT, or COSC Elective	3
POLS 2305[6]		3 POLS 2306[6]	3
Social Sciences (in addition to Core)[7]		3 Social Sciences (in addition to Core)[7]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	COMS Advanced Electives	6
COMS Advanced Electives	6	COMS 4381	3
General Electives	3	Minor [8]	6
Minor[8]	3		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
COMS Electives	6	General Electives	4
General Electives	3	General Electives	4
Minor[8]	6	General Electives	4
		Minor[8]	3
	15		**15**

Total Hours: 120

1 MATH 1332 or MATH 1342 is recommended
2 If COMS 1361 are used to fulfill Core Curriculum requirements additional hours will be needed to reach the minimum total semester credit hours of 120.
3 Satisfies Core Curriculum requirement for Component Area I (Communication).
4 Satisfies Core Curriculum requirement for requirement for Component Area VI (U.S. History).
5 If COMS 2386 is used to fulfill Core Curriculum requirements additional hours will be needed to reach the minimum total semester credit hours of 120.
6 Satisfies Core Curriculum requirement for requirement for Component Area VII (Political Science/Government).
7 Choose six hours from the list of Social Sciences courses in the table below.
8 All minors can be paired with this degree program.

Code	Title	Hours
Social Sciences [7]		**6**
Choose two from the list below:		
ECON 2300	Introduction To Economics	
PHIL 2303	Critical Thinking	
PHIL 2306	Contemporary Moral Issues	
POLS 2304	Introduction to Political Science	
POLS 2305	American Government	
PSYC 1301	Introduction To Psychology	
PSYC 2315	Psychology Of Adjustment	
PSYC 3334	Human Sexuality	
SOCI 1301	Introduction to Sociology	
SOCI 3324	Social Inequality	
SOCI 3341	Marriage And The Family	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Minor and elective hours should be chosen with the university requirement of 42 advanced hours in mind.

COMS 2382 does not count towards the requirement for a major. Students pursuing a major should take COMS 1361.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Communication Studies is designed to provide graduates with the following marketable skills:

- Professional oral and written communication.
- Effective Presentation skills.
- Research and analytical skills.
- Evaluation of sources and information validity.
- Data synthesis.
- Critical thinking and the ability to compare and contrast information.
- Conflict management and resolution.
- Interpersonal communication.
- Leadership and teamwork.
- Problem solving.
- Ethical communication.

Undergraduate Certificate in Communication for Health and Social Care Professionals

The Undergraduate Certificate in Communication for Health and Social Care Professionals is an 18-hour certificate program that builds from the department's existing undergraduate courses. The curriculum consists of six required classes that best suit students who are interested in pursuing careers in the health and social care industry (nurses, health technicians, patient ambassadors, health care managers, human service specialists, counselors, therapists, nutritionists, etc.). The certificate is a freestanding credential that can be earned as a stand-alone certification or awarded on the way toward a bachelor's degree.

Additional Information: Reference the Program Landing Page (https://shsu.edu/programs/undergrad-certificate/communication-health-social-care-professionals/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Undergraduate Certificate in Communication for Health and Social Care Professionals		
Required Courses		
COMS 3375	Strategic Organizational Communication	3
COMS 3386	Learning to Listen: A Key Communication Competency [1]	3
COMS 3391	Interpersonal Health Communication	3
COMS 3392	Risk Communication	3
COMS 3393	Environmental Communication	3
HLTH 3355	United States Health Care Systems [2]	3
Total Hours		**18**

1 The Department of Communication Studies will waive the prerequisite for anyone admitted to this certificate.
2 COHS has agreed to make the HLTH 3355 prerequisite of 55 hours or more a non-issue for students seeking the certificate.

Additional Information: Reference the Program Landing Page (https://shsu.edu/programs/undergrad-certificate/communication-health-social-care-professionals/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Communication for Health and Social Care Professionals is designed to provide graduates with the following marketable skills:

- Identify communication theories, principles, and research methods.
- Apply strategic communication principles related to professional health settings.
- Demonstrate interpersonal communication competence in health care contexts.
- Synthesize information and present different viewpoints related to health communication.

- Demonstrate effective verbal and nonverbal communication skills in health settings.
- Demonstrate effective leadership of small groups in health contexts.
- Gather and evaluate information critically.

Undergraduate Certificate in Communication for Legal and Criminal Justice Professionals

The Undergraduate Certificate in Communication for Legal and Criminal Justice Professionals is an 18-hour certificate program that builds from the department's undergraduate program. The curriculum consists of six required classes that best suit students who are interested in pursuing careers in criminal justice, law enforcement, and the legal profession. The certificate can be a freestanding credential earned along the way toward a bachelor's degree in any field.

Code	Title	Hours
Undergraduate Certificate in Communication for Legal and Criminal Justice Professionals		
Required Courses		
COMS 2386	Interpersonal Communication	3
COMS 3370	Intercultural Communication	3
COMS 3371	Conflict, Negotiation, and Resolution	3
COMS 3375	Strategic Organizational Communication	3
COMS 3379	Freedom of Speech and Civic Communication	3
COMS 4366	Deceptive Communication	3
Total Hours		**18**

Additional Information: Reference the Program Landing Page (https://shsu.edu/programs/undergrad-certificate/communication-legal-cj-professionals/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Communication for Legal and Criminal Justice Professionals is designed to provide graduates with the following marketable skills:

- Identify communication theories and principles applicable to criminal justice professionals.
- Apply strategic communication principles related to criminal justice professionals.
- Synthesize information and present different viewpoints related to communication.
- Demonstrate intercultural communication competence in legal settings.
- Develop argumentation skills from a communication perspective needed for legal settings.
- Demonstrate effective conflict management skills in legal settings.
- Gather and evaluate information critically.

Undergraduate Certificate in Communication for Sport Professionals

The Undergraduate Certificate in Communication for Sport Professionals is an 18-hour certificate program for students who are interested in pursuing careers as sport promoters/marketers, professional trainers, sports event coordinators, and communication specialists for professional sports teams. Specifically, the careers would be those that are not tied to reporting and producing sports. This is intended as a certificate to assist in communication that occurs in the sports industry.

Code	Title	Hours
Undergraduate Certificate in Communication for Sport Professionals		
Required Courses		
COMS 2386	Interpersonal Communication	3
COMS 3330	Communication in Sport	3
COMS 3375	Strategic Organizational Communication	3
COMS 3383	Small Group Communication	3
COMS 3391	Interpersonal Health Communication	3
COMS 4365	Nonverbal Communication	3
Total Hours		**18**

Additional Information: Reference the Program Landing Page (https://shsu.edu/programs/undergrad-certificate/communication-sport-professionals/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Communication for Sport Professionals is designed to provide graduates with the following marketable skills:

- Identify communication theories, principles, and research methods.
- Apply strategic communication principles related to sport professionals.
- Demonstrate interpersonal communication competence in sport contexts.
- Synthesize information and present different viewpoints related to sport communication.
- Demonstrate effective verbal and nonverbal communication skills in sport settings.
- Demonstrate effective leadership of small groups in sport contexts.
- Gather and evaluate information critically.

Minor in Communication Studies

Students choosing a minor in Communication Studies must complete at least 18 hours in the program, including:

Code	Title	Hours
Minor in Communication Studies		
Required Courses		
COMS 1361	Public Speaking	3
COMS 2331	Introduction - Communication Theory & Research	3
COMS 2386	Interpersonal Communication	3
Prescribed Electives		
Advanced COMS Hours		9
Total Hours		**18**

Note: COMS 2382 does not count toward the 18 hour requirement for minors.

Department of English

Interim Chair: Dr. Tracy Bilsing (ENG_TEB@shsu.edu), (936) 294-1402

Information: Evans Building 458; (936) 294-1404

Website: Department of English (http://www.shsu.edu/academics/english/)

The Department of English offers students the opportunity to study language, literature, composition, and cultures.

Mission

The Department of English strives to provide students with opportunities to grow as learners and as individuals. Students in the English Program may, through study of literature, gain an awareness and knowledge of themselves and their contemporary world. English students may also combine their cultural interests with specific vocational objectives, such as professional writing, teaching, or pre-professional training for law, business, or medicine.

English forms the cornerstone of the humanities. In a variety of courses in literature, writing, and the English language, students find a source of personal enrichment, and they develop verbal, analytic, and cultural skills readily adaptable to a variety of careers.

English students learn to write with precision, to read and analyze texts with accuracy, to conduct research and organize a welter of materials, to speak and listen well — in short, to sharpen critical thinking and inquiry skills. These skills are highly valued by prospective employers. Most professions, while expecting new employees to be familiar with their specific fields, stress above all else the ability of their employees to read, write, think, and speak proficiently. Similarly, professional schools are interested in the student who reads, writes, thinks, and speaks well. Brochures from medical and law schools, for example, reflect an increasing awareness of the importance of an English background for future physicians and attorneys.

Academic Programs

Students in English may choose the Bachelor of Arts in English with an approved minor or may choose composite teacher certification in English, Language Arts, and Reading. Students may also opt to minor in English (with or without Secondary Education Certification), in Creative Writing, in Technical/Professional Writing, or in American Studies.

Highlights

- The English Department focuses on excellent teaching, featuring numerous Sam Houston State University Teaching Excellence Award winners.
- Faculty actively publish in national and international journals, win national literary awards, and serve as editors of scholarly journals.
- Nationally recognized writers are brought to campus each year to read their works to students and discuss the writing and publishing process. Such writers have included Richard Bausch, Alan Cheuse, George Garrett, Allison Joseph, X.J. Kennedy, Maurice Kilwein, Galway Kinnell, Alex Lemon, Larry McMurtry, Marilyn Nelson, and Tim O'Brien.
- Students may publish and present their writing and enter writing contests. Numerous students have published works in regional and national journals.
- Academy of American Poets Prize - Students may compete for a poetry-writing prize judged by a nationally recognized poet.
- Students may gain professional experience as they participate in course projects to create documentation for non-profit and other community groups.
- Students enrolled in English classes may use Iris, a digital humanities creative suite offering state of the art facilities for multi-modal production.

Suggested Minors

SHSU offers a wide range of courses and areas students may use to structure a minor, and students should choose a minor to fit their individual interests and career goals. English majors may minor in Creative Writing, Professional Writing, or American Studies. Other common minors for English majors include Communication Studies, History, Mass Communication, Political Science, and Education.

Career Opportunities

When graduates leave SHSU with a degree in English, they are prepared for professional career opportunities or advanced study in teaching, technical and professional communication, journalism, government service, editing, scholarly and trade publishing, law, and business.

- Bachelor of Arts, Major in English (p. 797)
- Bachelor of Arts, Double Major in Education and English (p. 590)
- Minor in American Studies (p. 799)
- Minor in Applied Ethics and Critical Thinking (p. 741)
- Minor in Creative Writing (p. 800)
- Minor in English (p. 800)
- Minor in Technical and Professional Writing (p. 800)

- Undergraduate Certificate in Technical Communication (p. 801)

Student Organizations and Activities

Students in English may participate in many activities that will enrich their undergraduate experience and support the courses that they take:

- **English Club** offers a platform for SHSU students to build intellectual community and engage in meaningful acts of service to campus and local communities. English Club sponsors regular academic programs, community outreach events, and social events, all of which are open to SHSU undergraduates, regardless of major. Faculty Sponsor: Dr. Paul Child
- **Sigma Tau Delta**, the English honor society, invites junior and senior English majors and minors to become members of this prestigious national organization, with membership in the society recorded on each student's transcript. Sigma Tau Delta is an active student organization, sponsoring an annual food drive and readings throughout the school year. Applications for Sigma Tau Delta are available in the English office. Faculty Sponsor: Dr. Diane Dowdey
- ***The Texas Review*** is a nationally recognized literary magazine that, twice a year, publishes fiction, poetry, nonfiction prose, and reviews by writers from around the world. Texas Review Press sponsors the publication of eighteen to twenty-four books a year. Students may serve as interns while working as members of the *Review* and Press staff. Journal Editor: Ginger Ko.
- **The Writer's Forum** provides opportunities for all SHSU students to publish their writing.

Internships and Study Abroad

- **Texas Review Press** - Students may serve as interns at Texas Review Press. Interns are involved in a variety of tasks, ranging from charting the development of a manuscript to evaluating submissions to the literary journal.
- **Internships** in business and industry may be available for qualified students.
- **National Book Foundation** internship in New York City.
- A **student exchange program** with the English Department at the University of Turku, Finland, provides students with an opportunity to study abroad for either a semester or a full year and transfer coursework toward their SHSU degree.

Scholarships

The English Department awards over $100,000 per year in scholarships to outstanding undergraduate and graduate students. Information on University scholarships may be obtained at Scholarship4kats (http://www.shsu.edu/dept/financial-aid/scholarships/) or telephone 936-294-1672. You may also call the English Department Office (936-294-1403) for more information.

Olivia Ann Abernethy-Ramsey, MA (oaa026@shsu.edu), *Lecturer of English*, *Department of English*, MA, Texas Tech University; BA, Texas A&M University

J Robert Baker, PHD (jxb310@shsu.edu), *Lecturer of English*, *Department of English*, PHD, Univ of Notre Dame; MA, Univ of Notre Dame; BA, Univ of Notre Dame

Kimberly K Bell, PHD (eng_kkb@shsu.edu), *Professor of English and Dean of Honors College*, *Department of English*, PHD, Georgia State University; MA, Clark University; BA, The American College of Greece

Tracy E. Bilsing, PHD (eng_teb@shsu.edu), *Associate Professor and Acting Chair of English; Associate Dean, Honors College*, *Department of English*, PHD, Texas A&M University; MA, Sam Houston State University; BA, Sam Houston State University

Amy Lynn Bilski-Arredondo, MED (alb160@shsu.edu), *Lecturer of English*, *Department of English*, MED, Texas Tech University; BS, Texas Tech University; BS, Texas Tech University; BS, Texas Tech University

Jacob Damon Blevins, PHD (jblevins@shsu.edu), *Professor of English*, *Department of English*, PHD, Texas Tech University; MFA, McNeese State University; MA, McNeese State University; BA, McNeese State University

Kari Lee Bush, MA (klb021@shsu.edu), *Lecturer of English*, *Department of English*, MA, LSU & A&M College; MA, Sam Houston State University; BA, Sam Houston State University

Jennifer L Child, MA (jlc055@shsu.edu), *Senior Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Texas A&M University

Paul W Child, PHD (pchild@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Notre Dame; MA, The Johns Hopkins University; MA, James Madison University; BA, Saint John'S University

Marilyn Ruth Comer, MFA (mrc052@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Univ of Texas-Arlington

Danielle Kay Dahmann, MA (dkd018@shsu.edu), *Lecturer of English*, *Department of English*, MA, Texas State Univ-San Marcos; BA, Univ of Mary Hardin Baylor

Michael T Demson, PHD (mtd007@shsu.edu), *Professor of English*, *Department of English*, PHD, Grad Sch & Univ Center; MA, Grad Sch & Univ Center; BA, Reed College

Hannah Elizabeth Dietrich, MA (hed007@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Dallas Baptist University

Robert E. Donahoo, PHD (eng_rxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Duke University; MA, Duke University; BA, Baylor University; BA, Baylor University

Diane Dowdey, PHD (eng_dxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Wisconsin-Madison; MA, Univ of Missouri-Columbia; BA, Texas Christian University; BA, Texas Christian University

Alexandra Carlotta Ekstrom, MA (ace049@shsu.edu), *Lecturer of English*, *Department of English*, MA, Northwestern St Un of Louisana; BA, LSU & A&M College

Kelley Anne Frierson, MA (kfrierson@shsu.edu), *Lecturer of English*, *Department of English*, MA, Univ of Houston-Clear Lake; MA, Univ of Houston-Clear Lake; BA, Texas A&M-Corpus Christi

Sirkka Helena Halmari, PHD (halmari@shsu.edu), *Distinguished Professor of English*, *Department of English*, PHD, Univ of Southern California; MA, Univ of Southern California; MA, California St Un-San Bernardin; MSS, University of Tampere; MA, University of Tampere; BA, University of Tampere

Darci N Hill, PHD (eng_dnh@shsu.edu), *Professor of English*, *Department of English*, PHD, Texas Woman's University; MA, Texas State Univ-San Marcos; BA, Texas State Univ-San Marcos; BA, Texas State Univ-San Marcos

Adam L Hubrig, PHD (axh151@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BA, Concordia University

Robyn MacKenzie Johnson, PHD (rmj036@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Calif-Riverside; AM, Univ of Tennessee-Chattanooga; BA, Depaul University

Kelly Sue Jordan, MA (stdksr13@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Sam Houston State University

Scott Aaron Kaukonen, PHD (kaukonen@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Univ of Missouri-Columbia; MFA, Univ of Arizona; BA, Hope College

Ginger Y Ko, PHD (gingerko@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Georgia; MFA, Univ of Wyoming; BS, Indiana University-Bloomington; BA, Univ of Calif-Los Angeles

Nicolas J Lantz, MFA (nick.lantz@shsu.edu), *Professor of English*, *Department of English*, MFA, Univ of Wisconsin-Madison; BA, Lewis & Clark College

Donnie Aristidez Lopez, MA (dal042@shsu.edu), *Senior Lecturer of English*, *Department of English*, MA, Purdue University; BA, Univ of Houston-Downtown

Nathan Machart, MFA (stdnpm12@shsu.edu), *Lecturer of English*, *Department of English*, MFA, University of Iowa; BA, Texas State Univ-San Marcos

Zoe Nicole McDonald, PHD (znm004@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Vermont&State Agr Col; BA, Univ of Wyoming

Ashley Baines McNeese, MA (abm072@shsu.edu), *Lecturer of English*, *Department of English*, MA, Liberty University; BCE, Southeastern Free Will Baptist

Audrey D Murfin, PHD (adm034@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Reed College

Carroll F. Nardone, PHD (cfnardone@shsu.edu), *Professor of English and Associate Dean, CHSS*, *Department of English*, PHD, New Mexico State University; MA, Ohio State University; BA, Univ of Texas-El Paso

Adam Jay Norris, MFA (ajn032@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Western Illinois University

Ralph Coleman Norris, PHD (rcn006@shsu.edu), *Lecturer of English*, *Department of English*, PHD, University of Wales; MA, Georgia State University; BA, Kennesaw State University

April Lynn OBrien, PHD (aprilobrien@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Clemson University; MA, Suny Coll of Buffalo; BA, Grove City College

Lauren Elizabeth Owens, MA (leo017@shsu.edu), *Lauren Owens*, *Department of English*, MA, Stephen F Austin University; BA, Stephen F Austin University

Shyam Bahadur Pandey, PHD (sbp029@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Purdue University; MA, Minnesota State Univ-Mankato; MED, Kathmandu University, Nepal; BED, Tribhuvan University

Deborah Lynne Phelps, PHD (eng_dlp@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Delaware; MA, Univ of Delaware; BS, Towson State University

Penny Cryer Pitrucha, MA (ppitrucha@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Sam Houston State University

Charlotte Lindsey Pitts, EDD (cxl094@shsu.edu), *Lecturer of English*, *Department of English*, EDD, Univ of Houston-Clear Lake; MED, Univ of Nevada-Las Vegas; BS, Univ of Houston-Clear Lake

David L Pulling, MA (dlp059@shsu.edu), *Lecturer of English*, *Department of English*, MA, Univ of Louisiana-Lafayette; BA, Louisiana College

Nathan Joseph Ridings, MFA (njr004@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Sam Houston State University

La-Toya Lorraine Scott, PHD (lls060@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Florida; MA, Univ of South Florida; BA, Florida State University

Angela Elisabeth Shaffer, MA (aes075@shsu.edu), *Lecturer of English*, *Department of English*, MA, Angelo State University; BA, Angelo State University

Tannie H Shannon, MA (ths001@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Sam Houston State University

April A Shemak, PHD (aas004@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Univ of Wisconsin-Madison; BA, Univ of Wisconsin-Madison

Katie Jean Shinkle, PHD (kjs078@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Denver; MFA, Univ of Alabama-Tuscaloosa; BA, Grand Valley State University

Jennifer Shaw Swailes, MA (jss085@shsu.edu), *Lecturer of English*, *Department of English*, MA, Univ of Houston-Clear Lake; BS, Univ of Texas At Austin

Yingying Tang, PHD (yxt045@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Auburn University; MS, North Carolina State Univ

Kandi A Tayebi, PHD (eng_kat@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Denver; MA, Univ of Northern Colorado; BA, Univ of Northern Colorado

Katrina Leigh Thornton, MA (kthornton@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BS, Sam Houston State University

Xiaobo Wang, PHD (xiaobo.belle.wang@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Georgia State University; BA, Northwest Normal University

William Christopher Whitmire, MFA (wcw009@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Sam Houston State University

Zhongxing Zeng, PHD (zxz012@shsu.edu), *Lecturer of English*, *Department of English*, PHD, Arizona State University; MA, Arizona State University; BA, Shandong University

Bachelor of Arts, Major in English

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-english/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts - Major in English		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree-Specific Requirements		
ARTS, DANC, MUSI, THEA [3]		3
Foreign Language [2, 4]		14
PHIL 3000- or 4000- level		3
Major: Foundation		
ENGL 2332	World Literature I: Before the 17th Century [2]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
ENGL 3360	Survey of American Literature to 1865	3
or ENGL 3361	Survey of American Literature from 1865 to the Present	
ENGL 3372	Introduction to Linguistics	3
or ENGL 3373	English Grammar	
ENGL 3384	Early English Masterworks	3
or ENGL 3385	Later English Masterworks	
Major: Prescribed Electives		
4000-level ENGL		12
3000- or 4000-level ENGL		15
Electives: General		
General Electives		1
Minor: Required [5]		
Minor		18
Total Hours		**120**

1 MATH 1332 is recommended.

2 If the 2000 level Foreign Language courses are used to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), or if ENGL 2332 or ENGL 2333 is used to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), additional hours will be needed to satisfy the minimum total semester credit hours of 120.

3 Course cannot double dip with Core Curriculum.

4 Four courses required in one language.

5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

The English major requires a total of 36 hours of English coursework (12 hours of which must be at the 4000-level). [Note: ENGL 1301 and ENGL 1302 may not be used to meet this requirement.] All general requirements, including a minor, must be met.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-english/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area IV	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	4
ENGL 1301[2]	3	ENGL 1302[2]	3
Foreign Language 1411[3]	4	Foreign Language 1412[3]	4
HSTY 1301[4]	3	HSTY 1302[4]	3
	16		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[5]	4	Component Area III (p. 89)[5]	4
Component Area VIII (p. 90)	3	ENGL 3384 or 3385	3
ENGL 2332 or 2333[6]	3	Foreign Language 2312 [3, 6]	3
Foreign Language 2311 [3, 6]	3	PHIL 3000- or 4000-level	3
POLS 2305[7]	3	POLS 2306[7]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
ARTS, DANC, MUSI, THEA[8]	3	ENGL 3000- or 4000-level elective	9
ENGL 3360 or 3361	3	Minor [9]	6
ENGL 3372 or 3373	3		
Minor [9]	3		
	12		**15**

Fourth Year

Fall	Hours	Spring	Hours
ENGL 3000- or 4000-level electives	6	ENGL 4000-level elective	9
ENGL 4000-level elective	3	Elective	1
Minor [9]	6	Minor[9]	3
	15		**13**

Total Hours: 120

1. MATH 1332 is recommended.
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Four courses required in one language.
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Two courses required.
6. If the 2000 level Foreign Language courses are used to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), or if ENGL 2332 or ENGL 2333 is used to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), additional hours will be needed to satisfy the minimum total semester credit hours of 120.
7. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8. Course cannot double dip with core curriculum.
9. All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

The English major requires a total of 36 hours of English coursework, 12 hours of which must be at the 4000-level. [Note: ENGL 1301 and ENGL 1302 may not be used to meet this requirement.] All general requirements, including a minor, must be met.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in English is designed to provide graduates with the following marketable skills:

- Think critically across disciplines.
- Communicate effectively through written and oral communication.
- Conduct and interpret various modes of research in a variety of disciplines.

Minor in American Studies

The American Studies Minor explores aspects of the American experience locally, nationally, and within the global community from various perspectives and disciplines, including literature, history, political science, psychology, sociology, communication studies, and criminal justice. Minors will complete 18 semester credit hours of study.

Code	Title	Hours
Minor in American Studies		
Required Course		
AMST 3311	Introduction to American Studies	3
Prescribed Electives		
Five Elective Courses (See list below)		15
Total Hours		**18**

The elective courses will be drawn from three categories of concentration, and students will select two courses from any two of these categories and one course from a third category to constitute their fifteen elective hours.

1. Regional and Borderland Studies (studies of Texas, the Southwest, and border culture);
2. Ethnicity and Race in America (racial and ethnic minority experiences, history, and cultural expression); and
3. Gender in America (women's and masculinity studies).

Code	Title	Hours
Minor in American Studies		
1. Regional and Borderland Studies		
CRIJ 3394	Global Terrorism and Homeland Security	3
ENGL 3388	Texas Crossroads	3
ENGL 4370	American Regional Literature	3
HSTY 3383	The U.S. West	3
HSTY 3352	Colonial Latin America	3
PHIL 3373	American Philosophy	3
SPAN 3374	Introduction to Literatures of Spanish America	3
SPAN 3385	Spanish American Culture and Civilization	3
2. Ethnicity and Race in America		
COMS 3370	Intercultural Communication	3
CRIJ 4385	Criminal Justice and Social Diversity	3
ENGL 3337	African-American Literature	3
ENGL 3338	Studies in Multicultural Literature	3
GERM 2364	Multicultures of American-German	3
HSTY 3373	Black Civil Rights Movement	3
HSTY 3387	American Immigration	3
POLS 3335	Political Ethnic Minorities and Gender	3
SOCI 3324	Social Inequality	3
SOCI 3355	Racial and Ethnic Inequality	3

3. Gender in America		
COMS 4386	Family Communication	3
ENGL 3336	Studies in Women's Literature	3
SOCI 3325	Gender And Inequality	3
POLS 3335	Political Ethnic Minorities and Gender	3
PSYC 4334	Applied Social Psychology	3
PSYC 4391	Divorce: Psychological Impact	3

Minor in Creative Writing

Students seeking a Minor in Creative Writing are required to complete the following 18 hours:

Code	Title	Hours
Minor in Creative Writing		
Required Courses		
ENGL 3379	Introduction to Creative Writing: Creative Nonfiction	3
ENGL 3381	Introduction to Creative Writing: Fiction	3
ENGL 3382	Introduction to Creative Writing: Poetry	3
ENGL 3383	Practicum in Publishing	3
Select one of the following:		3
ENGL 4380	Advanced Creative Writing: Nonfiction	
ENGL 4381	Advanced Creative Writing: Fiction	
ENGL 4382	Advanced Creative Writing: Poetry	
3000- or 4000-level elective in ENGL		3
Total Hours		**18**

Minor in English

Students seeking a Minor in English are required to complete:

Code	Title	Hours
Minor in English		
Required Courses		
2000, 3000, or 4000-level ENGL course		6
3000 or 4000-level ENGL course		9
4000-level ENGL course		3
Total Hours		**18**

Minor in Technical and Professional Writing

A Minor in Technical and Professional Writing consists of the following courses:

Code	Title	Hours
Minor in Technical and Professional Writing		
Required Courses		
ENGL 3330	Introduction to Technical Writing	3
ENGL 3377	Argument and Persuasion	3
ENGL 3378	Document Design	3
ENGL 4330	Writing in the Professions	3
ENGL 4335	Studies in Rhetoric	3
ENGL 4340	Professional Style and Editing	3
Total Hours		**18**

Undergraduate Certificate in Technical Communication

The Undergraduate Certificate in Technical Communication provides students with an overview of the essential knowledge, skills, and competencies needed to communicate in ever-changing industries and professions. This undergraduate certificate allows students who are already pursuing a minor in a different field to acquire vital communication abilities through concentrated study in the field of technical and professional writing.

This Undergraduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/technical-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Those wishing to pursue the Undergraduate Certificate in Technical Communication must have completed their core composition requirements (ENGL 1301 and ENGL 1302) and be enrolled in good standing in an undergraduate degree program at Sam Houston State University. Students can enroll in the undergraduate certificate as post-baccalaureate coursework, or they can pursue the courses while they are concurrently enrolled in a Bachelor of Arts or Bachelor of Science program or as part of the minor in Technical Writing. Students may also earn the certificate in addition to a minor in another area.

Code	Title	Hours
Undergraduate Certificate in Technical Communication		
Required Courses		
ENGL 3330	Introduction to Technical Writing	3
ENGL 3378	Document Design	3
ENGL 4330	Writing in the Professions	3
or ENGL 4335	Studies in Rhetoric	
ENGL 4340	Professional Style and Editing	3
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Technical Communication is designed to provide graduates with the following marketable skills:

- Clarity of writing.
- Rhetorical awareness.
- Mastery of various workplace and social media documents/genres.

Department of History

Chair: Dr. (Bmj018@shsu.edu) Brian Jordan

Contact Information
(936) 294-4460
AB4 Room 441

Website: Department of History (http://www.shsu.edu/academics/history/)

Mission

The Department of History prepares students to learn about and analyze historical events; evaluate change over time; assess complex forces at work in the past; and learn how, in written and oral expression, to explain these various phenomena. In doing so, the department prepares students for any career requiring critical thinking and analytical skills. The Department of History is a vehicle—through teaching, research and service—for exploring the past on its own terms.

Highlights

The Department offers a wide range of undergraduate courses in U.S., European, and world history. Our faculty demonstrate the highest standards of quality in scholarship, teaching, and community engagement. Faculty include an SHSU Excellence in Teaching Award winner and a finalist for the Pulitzer Prize in History. Faculty engage in innovative, field-defining research in Texas, across the United States, and around the globe. They regularly publish scholarly books and articles that are read by popular and academic audiences alike. The Department sponsors study away and study abroad experiences in the United States, Mexico, and Central Europe. The Department's public history internship program offers for-credit, on-site summer internships at a dozen local and regional historic sites and cultural institutions. Our students have interacted with nationally-recognized scholars via

our award-winning chapter of Phi Alpha Theta; likewise, they have visited historic sites around the state and region with our popular Bearkat History Club.

Suggested Minors

History majors can minor in a wide variety of disciplines, including:

- Communication Studies
- Computing Science
- Criminal Justice
- Economics
- English
- General Business
- Geography
- Journalism
- Mass Communication
- Math
- Philosophy
- Photography
- Political Science
- Psychology
- Sociology
- Theater
- World Languages

Career Opportunities

The study of history is the gateway to a wide range of careers. The analytical and communications skills at the heart of historical inquiry are natural springboards to vocations in education, museums and archives, journalism, public relations, government service, law, medicine, and business, among others. SHSU's rigorous History major, culminating in a capstone research seminar, also provides structured preparation for students intending to pursue graduate studies in the humanities or social sciences.

Program Specific Requirements

History majors pursuing a Bachelor of Arts degree are required to take four semesters of a single foreign language at SHSU. However, any languages can be accepted as transfer credits.

Curriculum

Required History Courses for Majors

The Bachelor of Arts degree requires 36 semester credit hours in History, including but not limited to: HSTY 1301 HSTY 1302, HSTY 2311 HSTY 2312, HSTY 3300, and upper-level courses that sample the histories of at least three of six geographical areas: Asia & Middle East; Africa; Latin America; Europe; and the United States. All History majors are required to take a capstone research seminar at the 4000-level. At least 12 hours of upper-level history courses must be taken at SHSU.

- Bachelor of Arts, Major in History (p. 805)
- Bachelor of Science, Major in History (p. 810)
- Bachelor of Science, Double Major in Education and History (p. 602)
- Minor in Applied Ethics and Critical Thinking (p. 741)
- Minor in History (p. 816)
- Minor in Medical Humanities and Social Sciences (p. 743)

Student Organizations and Activities

The Department sponsors the Bearkat History Club and Phi Alpha Theta. The Bearkat History Club has a large student membership and organizes a wide variety of co-curricular activities, including lectures, film nights, and excursions to historical sites across the state and region. Members of Phi Alpha Theta, the national history honor society, won the Division V Best Chapter Award in 2017 and 2018. Phi Alpha Theta organizes workshops and seminars intended to hone research, analytical, presentation skills. Students regularly travel to and present papers at the biennial Phi Alpha Theta convention.

Internships and Study Abroad

Students interested in public history have the opportunity to complete a for-credit, on-site internship as part of their undergraduate curriculum. The department has partnered with at least a dozen local and regional historic sites, libraries, and cultural institutions to provide these opportunities for students. In recent years, interns have served at the Sam Houston Memorial Museum, the Texas Prison Museum, Colonial Williamsburg, the Rosenberg Railroad Museum, and the Baseball Hall of Fame in Cooperstown, New York, among others. The department also organizes study away and study abroad trips; recent study abroad experiences have explored the U.S. Civil War, Mesoamerican History, and the Civil Rights Movement.

Scholarships

A bevy of scholarships are available. Students must register with Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/). For information on university scholarships, please, visit the Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships/) or telephone (936) 294-1672.

Director/Chair: **Brian Matthew Jordan**

Nancy E Baker, PHD (neb001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Harvard University; AM, Harvard University; MA, George Washington University; BA, Rutgers University

Jadwiga M Biskupska, PHD (jxb074@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Yale University; MA, Yale University; MA, Yale University; BA, Cornell University

Scottie H Buehler, PHD (scottiecpm@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Calif-Los Angeles; MA, Univ of Calif-Los Angeles; BA, Univ of Texas At Austin

Robert T Cashion, PHD (his_rtc@shsu.edu), *Professor of History*, *Department of History*, PHD, Texas Christian University; MA, Univ of Texas-Arlington; BA, Austin College

Thomas H Cox, PHD (thc001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, University at Buffalo, Suny; MA, University at Buffalo, Suny; BA, Birmingham-Southern College; BS, Birmingham-Southern College; BS, Birmingham-Southern College

Nicholas Crawford, PHD (nxc082@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Harvard University; MA, Harvard University; BA, New York University

Amy Kathleen Rogers Dean, PHD (amydean13@shsu.edu), *Senior Lecturer of History*, *Department of History*, PHD, Purdue University; MA, Purdue University; BA, Texas Christian University; BA, Texas Christian University; BA, Texas Christian University

Zachary A Doleshal, PHD (zad007@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of New Mexico

Lei Duan, PHD (lxd042@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Syracuse University; MPHIL, Syracuse University; MA, Univ of Massachusetts-Amherst; BA, Nankai University

Mevhibe Pinar Emiralioglu, PHD (mpe005@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Chicago; MA, Univ of Chicago; MA, Bilkent University; BA, Bogazici University

Katherine Quiggins Gaskamp, MA (kwq001@shsu.edu), *Lecturer of History*, *Department of History*, MA, Sam Houston State University; BA, Sam Houston State University

Joshua S Haynes, PHD (jsh064@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Georgia; MA, Univ of Mississippi; BA, Tulane University

Charles Victor Heath, PHD (cvh003@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Tulane University; MA, Tulane University; BA, Tulane University

Kenneth E Hendrickson, PHD (his_keh@shsu.edu), *Dean of Graduate Studies, Professor of History*, *Department of History*, PHD, University of Iowa; MA, Texas A&M University; BA, Texas A&M University

Aaron David Hyams, PHD (adh061@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Marquette University; MA, Univ of Montana-Missoula; BA, Marquette University

William D Jones, PHD (wdj005@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Rice University; MA, Rice University; BA, Tulane University

Brian Matthew Jordan, PHD (bmj018@shsu.edu), *Associate Professor and Chair of History*, *Department of History*, PHD, Yale University; MA, Yale University; MPHIL, Yale University; BA, Gettysburg College

Jeffrey L Littlejohn, PHD (jll004@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Arkansas-Fayetteville; MA, Univ of Arkansas-Fayetteville; BA, Belmont University

Gabrielle Ryann Lyle, PHD (grl019@shsu.edu), *Visiting Assistant Professor of History*, *Department of History*, PHD, Texas A&M University; MA, Texas A&M University; BA, University of Tulsa

David C Mayes, PHD (his_dcm@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Wisconsin-Madison; MA, Univ of Richmond; BA, Univ of Richmond

Zachary A Montz, PHD (zmontz@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Univ of Texas At Austin; BA, Stanford University

Benjamin E Park, PHD (bep013@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Cambridge; MPHIL, Univ of Cambridge; MS, Univ of Edinburgh; BA, Brigham Young University; BA, Brigham Young University

Bernadette Pruitt, PHD (his_bxp@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Houston-Main; MA, Texas Southern University; BA, Texas Southern University

Uzma Quraishi, PHD (uxq001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Rice University; MA, Rice University; MA, Univ of Houston-Main; BA, Univ of Houston-Main; BA, Univ of Houston-Main

Stephen H Rapp, PHD (srapp@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Michigan; MA, Univ of Michigan; BA, Indiana University

Bachelor of Arts, Major in History

The Bachelor of Arts in History degree prepares students to analyze and interpret historical events; to locate and evaluate primary and secondary sources; to appraise change over time; to appreciate the range, texture, and diversity of human experiences; and to assess the complex forces at work in the past. The degree prepares students for careers requiring critical and analytical skills, including but not limited to teaching, policy analysis, government, business administration, public history, and archives/library management. The Bachelor of Arts degree requires 36 hours in History, including: HSTY 1301, HSTY 1302, HSTY 2311, HSTY 2312, and HSTY 3300; and eighteen (18) hours of upper-division courses in at least three of five geographical areas. All history majors are required to complete the capstone seminar, HSTY 4399.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-history/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in History		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Natural Sciences)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History) [3]		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language [2,4]		14
Fine Arts: ARTS, DANC, MUSI, PHIL 3366, or THEA [5]		3
Major: Foundation		**15**
HSTY 1301	U.S. History to 1876 [3]	
HSTY 1302	U.S. History Since 1876 [3]	
HSTY 2311	World History to 1500	
HSTY 2312	World History Since 1500	
HSTY 3300	Historian's Craft	
Major: Prescribed Advanced Electives [6]		**18**
HSTY 3301	Public History	
HSTY 3302	Applied Public History	
Africa:		
HSTY 3310	African Civilizations to 1800	
HSTY 3311	African Civilizations since 1800	
HSTY 3312	Early Christianities	
Asia & Middle East:		
HSTY 3315	Middle East to 1600	
HSTY 3316	Modern Middle East	
HSTY 3317	Silk Roads to Mongol Empire	
HSTY 3318	Japan: Age of the Samurai	
HSTY 3319	War & Revolution in China	
HSTY 3321	Modern Asian History	
HSTY 3322	Pacific War	
HSTY 3323	Modern China	
Europe:		
HSTY 3330	Ancient History	
HSTY 3331	Roman Empire to Byzantium	
HSTY 3332	Medieval Europe	
HSTY 3333	Renaissance Europe	

HSTY 3334	Euro Christianities 1350-1750
HSTY 3335	Europe & the World 1618-1789
HSTY 3336	Nineteenth Century Europe
HSTY 3337	Austria-Hungary and its Legacy
HSTY 3338	Britain to 1714
HSTY 3339	Modern Britain
HSTY 3340	British Empire
HSTY 3341	Early Modern France
HSTY 3342	French Revolution & Napoleon
HSTY 3343	Germany at War and Peace
HSTY 3344	Russian and Soviet Empires
HSTY 3345	History of Medicine
HSTY 3346	Medical Violence
HSTY 3347	World War I (1914-1918)
HSTY 3348	World War II
Latin America:	
HSTY 3350	Aztec, Maya, & Zapotec
HSTY 3351	Modern Mexico
HSTY 3352	Colonial Latin America
HSTY 3353	Modern Latin America
HSTY 3354	Slavery & Freedom in Americas
United States:	
HSTY 3360	Native America to 1840
HSTY 3361	Native America sn 1840
HSTY 3362	Colonization of America
HSTY 3363	Age of Independence
HSTY 3364	United States Early Republic
HSTY 3365	United States Civil War Era
HSTY 3367	Incorporating America
HSTY 3368	The American Century
HSTY 3369	Boomers to Zoomers
HSTY 3370	African American Hist to 1865
HSTY 3371	African America Hist sn 1865
HSTY 3373	Black Civil Rights Movement
HSTY 3374	Witches, Quakers, Shakers
HSTY 3375	Social Gospel to Mega Church
HSTY 3376	Mexican American Hist to 1848
HSTY 3377	Mexican American History Since 1848
HSTY 3379	U.S. Women to 1900
HSTY 3380	U.S. Women since 1900
HSTY 3381	U.S. South to 1865
HSTY 3382	U.S. South sn 1865
HSTY 3383	The U.S. West
HSTY 3384	Texas History
HSTY 3385	Borderlands History
HSTY 3386	Rise of Convservatism
HSTY 3387	American Immigration
HSTY 3388	United Stated Military History
HSTY 3390	Vietnam War
HSTY 3392	Historiography
HSTY 3393	Environmental History
HSTY 3394	History of Capitalism

HSTY 3395	Working Class History	
HSTY 3396	Gender and Sexualities	
HSTY 3397	Urban/Suburban History	
HSTY 3398	History of Popular Culture	
HSTY 3399	Special Topics in History	
Capstone Seminar		
HSTY 4399	History Senior Seminar	3
General Electives		
General Electives		10
Minor: Required [7]		
Minor Hours		18
Total Hours		**120**

1 MATH 1332 is recommended.
2 Three hours of Foreign Language satisfy Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
3 If HSTY 1301 and HSTY 1302 are used to satisfy Core Curriculum requirement for Component Area VI (U.S. History), additional hours will be needed to satisfy the minimum total semester credit hours of 120.
4 Four courses from the same World language is required.
5 Course cannot double dip with core requirements.
6 Students must select upper-division courses in at least three (3) of five (5) geographical areas: Africa; Asia & Middle East; Europe; Latin America; United States.
7 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher in all History courses is required.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-history/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area VIII (p. 90)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	1
ENGL 1301[2]	3	ENGL 1302[2]	3
Foreign Language[3]	4	Foreign Language[3]	4
HSTY 1301[4]	3	HSTY 1302[4]	3
	16		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Foreign Language[3]	3	Foreign Language[3]	3
HSTY 2311	3	HSTY 2312	3
PHIL 3366 (ARTS, DANC, MUSI, or THEA)[5]	3	HSTY 3300	3
POLS 2305[6]	3	POLS 2306[6]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	Component Area VI (p. 90)	3

Component Area VI (p. 90)		3 HSTY Advanced Elective[7, 8]	6
HSTY Advanced Elective[7, 8]		6 Minor[9]	6
Minor[9]		3	
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
General Elective		6 General Elective	4
HSTY Advanced Elective [7, 8]		6 HSTY 4399	3
Minor [9]		3 Minor [9]	6
	15		**13**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Four courses from the same World language is required. Three hours of Foreign Language satisfy Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
4 If HSTY 1301 and HSTY 1302 are used to satisfy Core Curriculum requirement for Component Area VI (U.S. History), additional hours will be needed to satisfy the minimum total semester credit hours of 120.
5 Course cannot double dip with core requirements.
6 Satisfies both the Core Curriculum requirement for Component Area VII (Political Science/Government) and the major.
7 Students must select upper-division courses in at least three (3) of five (5) geographical areas: Africa; Asia & Middle East; Europe; Latin America; United States.
8 See, HSTY Prescribed Advanced Elective tables below.
9 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher in all History courses is required.

Students must select upper-division courses in at least three (3) of five (5) geographical areas: Africa; Asia & Middle East; Europe; Latin America; United States.

Code	Title	Hours
Major: Prescribed Advanced Electives [8]		
HSTY 1301	U.S. History to 1876	3
HSTY 1302	U.S. History Since 1876	3
Africa		
HSTY 3310	African Civilizations to 1800	3
HSTY 3311	African Civilizations since 1800	3
HSTY 3312	Early Christianities	3
Asia & Middle East		
HSTY 3315	Middle East to 1600	3
HSTY 3316	Modern Middle East	3
HSTY 3317	Silk Roads to Mongol Empire	3
HSTY 3318	Japan: Age of the Samurai	3
HSTY 3319	War & Revolution in China	3
HSTY 3321	Modern Asian History	3
HSTY 3322	Pacific War	3
HSTY 3323	Modern China	3
Europe		

HSTY 3330	Ancient History	3
HSTY 3331	Roman Empire to Byzantium	3
HSTY 3332	Medieval Europe	3
HSTY 3333	Renaissance Europe	3
HSTY 3334	Euro Christianities 1350-1750	3
HSTY 3335	Europe & the World 1618-1789	3
HSTY 3336	Nineteenth Century Europe	3
HSTY 3337	Austria-Hungary and its Legacy	3
HSTY 3338	Britain to 1714	3
HSTY 3339	Modern Britain	3
HSTY 3340	British Empire	3
HSTY 3341	Early Modern France	3
HSTY 3342	French Revolution & Napoleon	3
HSTY 3343	Germany at War and Peace	3
HSTY 3344	Russian and Soviet Empires	3
HSTY 3345	History of Medicine	3
HSTY 3346	Medical Violence	3
HSTY 3347	World War I (1914-1918)	3
HSTY 3348	World War II	3
Latin America		
HSTY 3350	Aztec, Maya, & Zapotec	3
HSTY 3351	Modern Mexico	3
HSTY 3352	Colonial Latin America	3
HSTY 3353	Modern Latin America	3
HSTY 3354	Slavery & Freedom in Americas	3
United States		
HSTY 3360	Native America to 1840	3
HSTY 3361	Native America sn 1840	3
HSTY 3362	Colonization of America	3
HSTY 3363	Age of Independence	3
HSTY 3364	United States Early Republic	3
HSTY 3365	United States Civil War Era	3
HSTY 3367	Incorporating America	3
HSTY 3368	The American Century	3
HSTY 3369	Boomers to Zoomers	3
HSTY 3370	African American Hist to 1865	3
HSTY 3371	African America Hist sn 1865	3
HSTY 3373	Black Civil Rights Movement	3
HSTY 3374	Witches, Quakers, Shakers	3
HSTY 3375	Social Gospel to Mega Church	3
HSTY 3376	Mexican American Hist to 1848	3
HSTY 3377	Mexican American History Since 1848	3
HSTY 3379	U.S. Women to 1900	3
HSTY 3380	U.S. Women since 1900	3
HSTY 3381	U.S. South to 1865	3
HSTY 3382	U.S. South sn 1865	3
HSTY 3383	The U.S. West	3
HSTY 3384	Texas History	3
HSTY 3385	Borderlands History	3
HSTY 3386	Rise of Convservatism	3
HSTY 3387	American Immigration	3
HSTY 3388	United Stated Military History	3

HSTY 3390	Vietnam War	3
HSTY 3392	Historiography	3
HSTY 3393	Environmental History	3
HSTY 3394	History of Capitalism	3
HSTY 3395	Working Class History	3
HSTY 3396	Gender and Sexualities	3
HSTY 3397	Urban/Suburban History	3
HSTY 3398	History of Popular Culture	3
HSTY 3399	Special Topics in History	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in History is designed to provide graduates with the following marketable skills:

- Engage effectively in regional, national, and global communities while promoting civil discourse and civic participation.
- Express ideas in written, oral, and visual communication.
- Think critically and analytically.
- Build an informed belief system by synthesizing knowledge and posing questions about different societies and cultures.

Bachelor of Science, Major in History

The Bachelor of Science in History degree prepares students to analyze and interpret historical events; to evaluate change over time; and to assess the complex forces at work in the past. The degree prepares students for any career requiring critical and analytical skills, but it is most beneficial for students who wish to pursue medical professions after their graduation. The Bachelor of Science in History degree requires 30 semester credit hours in history, including: HSTY 1301, HSTY 1302, HSTY 2311 HSTY 2312, and upper-division electives. All history majors are required to complete HSTY 4399. At least 12 advanced hours must be taken in residence.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-history/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in History		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History) [4]		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I (Junior)	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4

PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Select two of the following:		8
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3440	General Physiology	
BIOL 3450	Introductory Genetics	
BIOL 3470	General Microbiology	
BIOL 3490	Histology	
Major: Foundation		
HSTY 1301	U.S. History to 1876 [4]	3
HSTY 1302	U.S. History Since 1876 [4]	3
HSTY 2311	World History to 1500 [3]	3
HSTY 2312	World History Since 1500 [3]	3
HSTY 3345	History of Medicine	3
American History Courses - Select one of the following:		3
HSTY 3360	Native America to 1840	
HSTY 3361	Native America sn 1840	
HSTY 3362	Colonization of America	
HSTY 3363	Age of Independence	
HSTY 3364	United States Early Republic	
HSTY 3365	United States Civil War Era	
HSTY 3367	Incorporating America	
HSTY 3368	The American Century	
HSTY 3369	Boomers to Zoomers	
HSTY 3370	African American Hist to 1865	
HSTY 3371	African America Hist sn 1865	
HSTY 3373	Black Civil Rights Movement	
HSTY 3374	Witches, Quakers, Shakers	
HSTY 3375	Social Gospel to Mega Church	
HSTY 3376	Mexican American Hist to 1848	
HSTY 3377	Mexican American History Since 1848	
HSTY 3379	U.S. Women to 1900	
HSTY 3380	U.S. Women since 1900	
HSTY 3381	U.S. South to 1865	
HSTY 3382	U.S. South sn 1865	
HSTY 3383	The U.S. West	
HSTY 3384	Texas History	
HSTY 3385	Borderlands History	
HSTY 3386	Rise of Convservatism	
HSTY 3387	American Immigration	
HSTY 3388	United Stated Military History	
HSTY 3390	Vietnam War	
HSTY 3392	Historiography	
HSTY 3393	Environmental History	
HSTY 3394	History of Capitalism	
HSTY 3395	Working Class History	
HSTY 3396	Gender and Sexualities	
HSTY 3397	Urban/Suburban History	
HSTY 3398	History of Popular Culture	
European History - select one of the following:		3
HSTY 3330	Ancient History	
HSTY 3331	Roman Empire to Byzantium	

HSTY 3332	Medieval Europe	
HSTY 3333	Renaissance Europe	
HSTY 3334	Euro Christianities 1350-1750	
HSTY 3335	Europe & the World 1618-1789	
HSTY 3336	Nineteenth Century Europe	
HSTY 3337	Austria-Hungary and its Legacy	
HSTY 3338	Britain to 1714	
HSTY 3339	Modern Britain	
HSTY 3340	British Empire	
HSTY 3341	Early Modern France	
HSTY 3342	French Revolution & Napoleon	
HSTY 3343	Germany at War and Peace	
HSTY 3344	Russian and Soviet Empires	
HSTY 3346	Medical Violence	
HSTY 3347	World War I (1914-1918)	
HSTY 3348	World War II	
World History - select one of the following:		3
HSTY 3300	Historian's Craft	
HSTY 3301	Public History	
HSTY 3302	Applied Public History	
HSTY 3310	African Civilizations to 1800	
HSTY 3311	African Civilizations since 1800	
HSTY 3312	Early Christianities	
HSTY 3315	Middle East to 1600	
HSTY 3316	Modern Middle East	
HSTY 3317	Silk Roads to Mongol Empire	
HSTY 3318	Japan: Age of the Samurai	
HSTY 3319	War & Revolution in China	
HSTY 3321	Modern Asian History	
HSTY 3322	Pacific War	
HSTY 3323	Modern China	
HSTY 3350	Aztec, Maya, & Zapotec	
HSTY 3351	Modern Mexico	
HSTY 3352	Colonial Latin America	
HSTY 3353	Modern Latin America	
HSTY 3354	Slavery & Freedom in Americas	
HSTY 3399	Special Topics in History	
Capstone Course		
HSTY 4399	History Senior Seminar	3
Major: Prescribed Electives		
Additional Advanced Hours in History (one course at the 4000 level if not already taken from above categories in History Major)		15
Electives: General		
General Electives		6
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1314 or MATH 1410 is recommended.

2 CHEM 1411 and CHEM 1412 will satisfy the requirements in the Degree Specific Requirements and Component Area III (Life and Physical Science).

3 HSTY 2311, and HSTY 2312 are used to satisfy the Core Curriculum requirements, additional hours will be needed to satisfy the minimum total semester credit hours of 120.

4 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

[5] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

[6] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use Elective and/or Minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-history/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area VIII (p. 90)	3
Component Area V (p. 90)	3	Component Area IX (p. 91)	1
BIOL 1406	4	BIOL 1407	4
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
	16		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area IV [4]	3	CHEM 1412[5]	4
CHEM 1411[5]	4	HSTY Advanced Electives	6
HSTY 2311[4]	3	HSTY 2312[4]	3
POLS 2305[6]	3	POLS 2306[6]	3
	13		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	CHEM 2325 & CHEM 2125	4
CHEM 2323 & CHEM 2123	4	HSTY European History Course[7]	3
HSTY American History Course[7]	3	HSTY 4399	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	14		**14**

Fourth Year

Fall	Hours	Spring	Hours
BIOL 3420, 3440, 3450, 3470, or 3490	4	BIOL 3420, 3420, 3440, 3450, 3470, or 3490	4
HSTY Advanced Electives	3	CHEM 3438	4
HSTY Advanced Electives	6	HSTY 3345	3
HSTY World History Course[7]	3	General Electives	6
	16		**17**

Total Hours: 120

[1] MATH 1314 or MATH 1410 is recommended.

[2] Satisfies Core Curriculum requirement for Component Area I (Communication).

[3] Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

[4] If HSTY 2311 and HSTY 2312 are used to satisfy the Core Curriculum requirements, additional hours will be needed to satisfy the minimum total semester credit hours of 120.
[5] CHEM 1411 and CHEM 1412 will satisfy the requirements in the Degree Specific Requirements and Component Area III (Life and Physical Science).
[6] Satisfies both the Core Curriculum requirement for Component Area VII (Political Science/Government) and the Major.
[7] See, below American History, European History, and World History course list.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Students should use Elective and/or Minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

Code	Title	Hours
HSTY Course List [7]		
American History		
Select one from the following:		3
HSTY 3360	Native America to 1840	
HSTY 3361	Native America sn 1840	
HSTY 3362	Colonization of America	
HSTY 3363	Age of Independence	
HSTY 3364	United States Early Republic	
HSTY 3365	United States Civil War Era	
HSTY 3367	Incorporating America	
HSTY 3368	The American Century	
HSTY 3369	Boomers to Zoomers	
HSTY 3370	African American Hist to 1865	
HSTY 3371	African America Hist sn 1865	
HSTY 3373	Black Civil Rights Movement	
HSTY 3374	Witches, Quakers, Shakers	
HSTY 3375	Social Gospel to Mega Church	
HSTY 3376	Mexican American Hist to 1848	
HSTY 3377	Mexican American History Since 1848	
HSTY 3379	U.S. Women to 1900	
HSTY 3380	U.S. Women since 1900	
HSTY 3381	U.S. South to 1865	
HSTY 3382	U.S. South sn 1865	
HSTY 3383	The U.S. West	
HSTY 3384	Texas History	
HSTY 3385	Borderlands History	
HSTY 3386	Rise of Convservatism	
HSTY 3387	American Immigration	
HSTY 3388	United Stated Military History	
HSTY 3390	Vietnam War	
HSTY 3392	Historiography	
HSTY 3393	Environmental History	

HSTY 3394	History of Capitalism	
HSTY 3395	Working Class History	
HSTY 3396	Gender and Sexualities	
HSTY 3397	Urban/Suburban History	
HSTY 3398	History of Popular Culture	
European History		
Select one from the following:		3
HSTY 3330	Ancient History	
HSTY 3331	Roman Empire to Byzantium	
HSTY 3332	Medieval Europe	
HSTY 3333	Renaissance Europe	
HSTY 3334	Euro Christianities 1350-1750	
HSTY 3335	Europe & the World 1618-1789	
HSTY 3336	Nineteenth Century Europe	
HSTY 3337	Austria-Hungary and its Legacy	
HSTY 3338	Britain to 1714	
HSTY 3339	Modern Britain	
HSTY 3340	British Empire	
HSTY 3341	Early Modern France	
HSTY 3342	French Revolution & Napoleon	
HSTY 3343	Germany at War and Peace	
HSTY 3344	Russian and Soviet Empires	
HSTY 3345	History of Medicine	
HSTY 3346	Medical Violence	
HSTY 3347	World War I (1914-1918)	
HSTY 3348	World War II	
World History		
Select one from the following:		3
HSTY 3300	Historian's Craft	
HSTY 3301	Public History	
HSTY 3302	Applied Public History	
HSTY 3310	African Civilizations to 1800	
HSTY 3311	African Civilizations since 1800	
HSTY 3312	Early Christianities	
HSTY 3315	Middle East to 1600	
HSTY 3316	Modern Middle East	
HSTY 3317	Silk Roads to Mongol Empire	
HSTY 3318	Japan: Age of the Samurai	
HSTY 3319	War & Revolution in China	
HSTY 3321	Modern Asian History	
HSTY 3322	Pacific War	
HSTY 3323	Modern China	
HSTY 3350	Aztec, Maya, & Zapotec	
HSTY 3351	Modern Mexico	
HSTY 3352	Colonial Latin America	
HSTY 3353	Modern Latin America	
HSTY 3354	Slavery & Freedom in Americas	
HSTY 3399	Special Topics in History	

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in History is designed to provide graduates with the following marketable skills:

- Engage effectively in regional, national, and global communities while promoting civil discourse and civic participation.
- Express ideas in written, oral, and visual communication.
- Think critically and analytically.
- Build an informed belief system by synthesizing knowledge and posing questions about different societies and cultures.

Minor in History

A minor in history requires 21 semester credit hours, including:

Code	Title	Hours
Minor in History		
Required Courses		
HSTY 1301	U.S. History to 1876	3
HSTY 1302	U.S. History Since 1876	3
HSTY 2311	World History to 1500	3
HSTY 2312	World History Since 1500	3
Electives: Advanced		
Select any three 3000-level HIST/HSTY courses		9
Total Hours		**21**

[1] Satisfies both the Core Curriculum requirement for Component Area VI (U.S. History) and the minor requirement.

[2] Satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and Component Area IX (Component Area Option) as well as the minor requirement.

Note: For history courses, no grade below C is accepted.

Department of Political Science

Chair: Dr. Jason Enia (jason.enia@shsu.edu)

Department Contact Information: polsci@shsu.edu (936) 294-1467

On Campus: Building CHSS, Rm. 490

Mail: P.O. Box 2149, Huntsville, TX 77341-2149

Website: Department of Political Science (http://www.shsu.edu/academics/political-science/)

Political Science is an exciting discipline, mixing the drama of politics with the development of analytical and communication skills. Students examine:

- elections and campaigns
- the causes and impact of war
- the creation, implementation, and adjudication of law
- the interplay among government, business, and nonprofit sectors

The discipline prepares students to compete in a changing global economy, helping them land jobs in the fields of law, government, nonprofits, and business.

Mission

The mission of the Department of Political Science is to provide students with theoretical knowledge and understanding of core concepts and principles in Political Science while helping students develop practical experience and skills that are necessary for the marketplace. Within that context, the department focuses on programs and courses that emphasize civic engagement, public service, and citizenship and ethics at the local, state, national, and global levels.

To carry out this mission, the Political Science faculty endeavor to:

- Develop students' analytical, writing, speaking, interpersonal, and professional skills;
- Develop students' ability to work as effective members of a team;
- Develop students' ability to utilize technology to solve problems and accomplish goals;
- Prepare students for professional careers in the 21st century;
- Build students' citizenship skills, knowledge, and activism;
- Help students understand human beings in their diversity and gain an appreciate for democratic values; and
- Prepare students to make meaningful contributions to local, state, national, and global communities.

Academic Programs

The department offers courses in five areas:

- American government and politics
- international relations and foreign policy
- comparative politics
- public administration and policy
- political theory and methodology

Highlights

Political Science faculty members bring unique backgrounds to the classroom. They have strong academic and real-world credentials, with doctorates from top schools and practical experience in government and politics.

Suggested Minors

The Public Administration and Public Policy minor is offered through the Department of Political Science. This is an online minor designed to serve students who wish to pursue careers in the public and nonprofit sectors.

The Legal Studies minor is also offered through the Department of Political Science and is designed to help prepare students for law school and the legal profession.

Additional minors compatible with political science include: Applied Ethics and Critical Thinking, Communications Studies, Criminal Justice, History, Mass Communication, Philosophy, Sociology, and Statistics. Students may pursue a minor of their choice. See the SHSU Undergraduate Catalog for a listing of all minors offered at SHSU.

Career Opportunities

The Political Science curriculum lays the foundation for numerous exciting careers. By developing students' critical thinking, writing, and awareness of public problems, students graduate well prepared for jobs in business, government, nonprofits, and teaching. Recent graduates currently work as lawyers, judges, elected officials, lobbyists, nonprofit managers, business leaders, teachers, professors, talk-show hosts, and military officers.

Political Science also helps prepare students for graduate school or law school. Recent graduates have been accepted into high ranking graduate programs in political science, campaign management, and public administration. SHSU is one of the top seven percent of national universities in producing law-school students.

- Bachelor of Arts, Major in Political Science (p. 820)
- Bachelor of Science, Major in Political Science (p. 822)
- Minor in Applied Ethics and Critical Thinking (p. 741)
- Minor in Legal Studies (p. 824)
- Minor in Political Science (p. 825)
- Minor in Public Administration and Public Policy (p. 825)

Student Organizations and Activities

The Department of Political Science promotes student activities on campus and in the community. Our students hold positions in student government, campus social service, and political organizations. Our students volunteer with local organizations such as Boys and Girls Club, the SAAFE House, the Wounded Warrior Project, and Habitat for Humanity. The department recognizes student achievement with membership in Pi Sigma Alpha, the national Political Science honor society.

Internships

Advanced students are encouraged to gain professional experience, make contacts, and explore career options through the department's successful internship program and the internships offered through SHSU's LEAP Center (https://www.shsu.edu/centers/leap/). Recently, students have interned in city and county governments, the state legislature, the U.S. Congress, the U.S. Department of State, nonprofit groups, both major political parties, and law offices.

Scholarships

In addition to the University's student financial aid programs, the Department of Political Science also offers scholarships to majors and minors. For information, contact the department secretary. Information on University scholarships is available on the Office of Academic Scholarships website (http://www.shsu.edu/~fao_www/scholarships/) at or by phone at (936) 294-1672.

Director/Chair: **Jason S Enia**

Aisha Saratu Ahmadu, PHD (asa059@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Mississippi State University; MBA, New Mexico State University; BA, Midwestern State University

Robin M Bittick, PHD (rmb004@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Claremont Grad Sch; MPA, California St Un-Dominguez Hil; BS, California St Un-Dominguez Hil

Jonathan Nathan Brown, PHD (jnb047@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Indiana University

Rhonda L Callaway, PHD (rlc005@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Univ of North Texas; MA, Univ of North Texas; BA, Univ of Texas At Austin

Fatih Demiroz, PHD (fxd009@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Central Florida; MPA, Univ of Central Florida; BA, Yeditepe University

John C Domino, PHD (pol_jcd@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Miami University; MA, Eastern Kentucky University; BA, Florida-Atlantic U

Jason S Enia, PHD (jason.enia@shsu.edu), *Professor and Chair of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Fordham University; BA, Univ of Dayton; BA, Univ of Dayton

Max Katz Crook, PHD (mxk095@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Nottingham

Masoud Kazemzadeh, PHD (mxk002@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Univ of Minnesota-Twin Cities

Rudy Leal McCormack, PHD (rudymc@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Colorado State University; MA, Florida Int'L Univ; BA, Florida Int'L Univ; BA, Florida Int'L Univ

Peiyao Li, PHD (pxl043@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; MPA, Wuhan University

Sungdae Lim, PHD (slim@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Florida State University; MPA, Florida State University; BPA, Soongsil University

Kenneth Bruce McIntyre, PHD (kbm014@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Tulane University; MS, University of Wales; MA, Tulane University; BA, Princeton University

Pablo Alberto Ortega Poveda, PHD (pao016@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; BA, Universidad Javeriana

Christopher Francis Patane, PHD (cfp009@shsu.edu), *Senior Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Missouri-Columbia; MA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia

Eric P Svensen, PHD (eps007@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, San Diego City Coll

Stacy Gwenn Ulbig, PHD (sgu001@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Rice University; MA, Rice University; BA, Univ of St Thomas

Tamara A. Waggener, PHD (pol_taw@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; BA, Cal Poly St-Pomona

WenJiun Wang, PHD (wjwang@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, University of Pittsburgh; MA, National Taipei University; BA, National Taipei University; BBA, National Taipei University

Penny Lea Watson, MA (plw010@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, MA, Sam Houston State University; BA, Sam Houston State University

Lu-Chung Weng, PHD (dennis.weng@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Dallas; MA, Univ of Texas At Dallas; MA, Tamkang College; BBA, Tamkang College

Richard Michael Yawn, MA (mike.yawn@shsu.edu), *Adjunct Faculty*, *Department of Political Science*, MA, Sam Houston State University; BS, Sam Houston State University

Bachelor of Arts, Major in Political Science

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-political-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Political Science		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2, 3]		4
Degree Specific Requirements		
Foreign Language [2]		14
Major: Foundation		
POLS 2304	Introduction to Political Science	3
POLS 3302	Introduction to Public Policy	3
POLS 3330	American Politics	3
POLS 3365	Introduction to Comparative Politics	3
POLS 3374	Quantitative Methods for Political Science	3
POLS 3377	Survey of Political Theory	3
POLS 3379	Research and Writing in Political Science	3
POLS 3380	Introduction to International Relations	3
Major: Prescribed Electives [3]		
POLS Electives		9
Electives: General [4]		
General Electives		13
Minor: Required [5]		**18**
Total Hours		**120**

1 MATH 1332 or MATH 1342 is recommended.

2 Four Foreign Language courses in one language required. If a student uses the last two foreign language courses to satisfy Component Area IV and Component Area IX in core curriculum in addition to the degree specific requirements, additional elective credit will be needed to reach the minimum 120 credits.

3 All 9 POLS Elective hours must be advanced. Courses in the Major Foundation are not allowed to apply in this area. POLS 2305, and POLS 2306 are not allowed to apply in this area.

4 For students interested in law school, the department recommends PHIL 2303 and/or PHIL 2352.

5 The following minor cannot be paired with this degree program: Minor in Political Science.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional Requirements:

- No grade below a C in a Political Science course will count toward the major.
- Students must have 42 advanced hours; at least 15 hours of POLS must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-political-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]		3 Component Area V (p. 90)	3
Component Area VII (p. 90)		3 Component Area VII (p. 90)	3
ENGL 1301[2]		3 ENGL 1302[2]	3
Foreign Language[3]		4 Foreign Language [3]	4
HSTY 1301[4]		3 HSTY 1302[4]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area IV (p. 89)		3 Component Area IX (p. 91)	3
Component Area VIII (p. 90)		3 Component Area IX (p. 91)	1
Foreign Language[3]		3 Foreign Language[3]	3
POLS 2304		3 POLS 3379	3
	16		**14**

Third Year

Fall	Hours	Spring	Hours
Minor[5]		3 Minor[5]	3
POLS 3302		3 POLS 3365	3
POLS 3330		3 POLS 3380	3
POLS 3374		3 POLS 3377	3
		POLS Electives[6]	3
	12		**15**

Fourth Year

Fall	Hours	Spring	Hours
General Electives[7]		3 General Electives[7]	3
Minor[5]		3 General Electives[7]	3
Minor[5]		3 General Electives	4
Minor[5]		3 Minor[5]	3
POLS Electives[6]		3 POLS Electives[6]	3
	15		**16**

Total Hours: 120

1 MATH 1332 or MATH 1342 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Four Foreign Language courses in one language required. If a student uses the last two foreign language courses to satisfy Component Area IV and Component Area IX in core curriculum in addition to the degree specific requirements, additional elective credit will be needed to reach the minimum 120 credits.
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 The following minor cannot be paired with this degree program: Minor in Political Science.
6 All 9 POLS Elective hours must be advanced. Courses in the Major Foundation are not allowed to apply in this area. POLS 2305, and POLS 2306 are not allowed to apply in this area.
7 For students interested in law school, the department recommends PHIL 2303 and/or PHIL 2352.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional Requirements:

- No grade below a C in a Political Science course will count toward the major.
- Students must have 42 advanced hours; at least 15 hours of POLS must be advanced.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Political Science is designed to provide graduates with the following marketable skills:

- Analytical, writing, speaking, interpersonal, and professional skills.
- Work as effective members of a team.
- Utilize technology to solve problems and accomplish goals.
- Prepare students for professional careers in the 21st century.
- Prepare students to make meaningful contributions to local, state, national, and global communities.

Bachelor of Science, Major in Political Science

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-political-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Political Science		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Natural Sciences		8
Math or Natural Science [2]		6-7
Major: Foundation		
POLS 2304	Introduction to Political Science	3
POLS 3302	Introduction to Public Policy	3
POLS 3330	American Politics	3
POLS 3365	Introduction to Comparative Politics	3
POLS 3374	Quantitative Methods for Political Science	3
POLS 3377	Survey of Political Theory	3
POLS 3379	Research and Writing in Political Science	3
POLS 3380	Introduction to International Relations	3
Major: Prescribed Electives		
POLS Electives [3]		9
Electives: General [4]		
General Electives		12
Minor: Required [5]		

Minor	18
Total Hours	**120**

1 MATH 1332 or MATH 1342 is recommended.
2 Depending on the course used to fulfill the core Component Area II (Mathematics), the department recommends a combination of MATH 1342, MATH 1410, and/or MATH 1420. The Plan of Study suggests 4 credits. Three (3) credits will fulfill the DSR for the degree, but students will need to take an additional course to meet the 120-credit hour minimum.
3 All 9 POLS Elective hours must be advanced. Courses in the Major Foundation are not allowed to apply in this area. POLS 2305 and POLS 2306 are not allowed to apply in this area.
4 For students interested in law school, the department recommends PHIL 2303 and/or PHIL 2352.
5 The following minor cannot be paired with this degree program: Minor in Political Science.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional Requirements:

- No grade below a C in a Political Science course will count toward the major.
- Students must have 42 advanced hours; at least 15 hours of POLS must be advanced.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-political-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	Component Area V (p. 90)	3
Component Area VII (p. 90)	3	Component Area VII (p. 90)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)	3
Component Area VIII (p. 90)	3	Component Area IX	1
Math or Natural Science[4]	3	Math or Natural Science[4]	4
Natural Sciences	4	Natural Sciences	4
POLS 2304	3	POLS 3379	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
POLS 3302	3	POLS 3365	3
POLS 3330	3	POLS 3377	3
POLS 3374	3	POLS 3380	3
Minor[5]	3	POLS Electives[6]	3
		Minor[5]	3
	12		**15**

Fourth Year

Fall	Hours	Spring	Hours
General Electives[7]	3	General Electives[7]	6
Minor[5]	3	General Electives[7]	3

Minor[5]	3 Minor[5]	3
Minor[5]	3 POLS Electives[6]	3
POLS Electives[6]	3	
	15	**15**

Total Hours: 120

1 MATH 1332 or MATH 1342 is recommended.
2 Satisfies the Core Curriculum requirement for Component Area I (Communications).
3 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4 Depending on the course used to fulfill the core Component Area II (Mathematics), the department recommends a combination of MATH 1342, MATH 1410, and/or MATH 1420. The Plan of Study suggests 4 credits. Three (3) credits will fulfill the DSR for the degree, but students will need to take an additional general elective course to meet the 120-credit hour minimum.
5 The following minor cannot be paired with this degree program: Minor in Political Science.
6 All 9 POLS Elective hours must be advanced. Courses in the Major Foundation are not allowed to apply in this area. POLS 2305 and POLS 2306 are not allowed to apply in this area.
7 For students interested in law school, the department recommends PHIL 2303 and/or PHIL 2352.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional Requirements:

- No grade below a C in a Political Science course will count toward the major.
- Students must have 42 advanced hours; at least 15 hours of POLS must be advanced.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Political Science is designed to provide graduates with the following marketable skills:

- Analytical, writing, speaking, interpersonal, and professional skills.
- Work as effective members of a team.
- Utilize technology to solve problems and accomplish goals.
- Prepare students for professional careers in the 21st century.
- Prepare students to make meaningful contributions to local, state, national, and global communities.

Minor in Legal Studies

Minors in Legal Studies must complete 18 semester credit hours of required courses and electives. In keeping with the intent of a minor to broaden the student's background knowledge, none of the courses taken by Legal Studies minors may be used to satisfy the requirement of any major, including a Political Science major, or any other minor.

Code	Title	Hours
Minor in Legal Studies		
Required Courses		
POLS 3334	Judicial Systems [1]	3
POLS 4334	Constitutional Law I: Civil Rights and Liberties	3
POLS 4335	Constitutional Law II: Gov Powers & State-Federal Relations	3
Prescribed Electives		
Select one of the following Law-Related Skills courses:		3
ENGL 3377	Argument and Persuasion	
PHIL 2303	Critical Thinking (must be writing enhanced)	

PHIL 2352	Introduction to Contemporary Logic	
Select two of the following Substantive Legal Content courses:		6
Political Science:		
POLS 3338	Victims' Rights, Politics, and Policy	
POLS 3372	Contemporary Political Theory	
POLS 3385	International Law and Organizations	
POLS 4383	International Human Rights	
POLS 4081	Problems in Political Science [2]	
Criminal Justice:		
CRIJ 4330	Law And Society	
CRIJ 4332	Legal Aspects Of Corrections	
CRIJ 4394	Constitutional Issues In Law Enforcement	
General Business:		
BUAD 3338	Entrepreneurial Law	
BUAD 3355	Business Law	
BUAD 3360	Human Resources Management Law	
BUAD 4340	International Business Law	
REAL 3365	Real Estate Law	
History:		
HSTY 3373	Black Civil Rights Movement	
Kinesiology:		
KINE 3365	Sport Law	
Security Studies:		
SCST 3380	Law and Ethics in Homeland Security	
Philosophy:		
PHIL 4336	Philosophy of Law	
Psychology:		
PSYC 3383	Psychology And The Law	
Total Hours		**18**

[1] The department encourages, but does not require, students to complete POLS 3334 prior to enrolling in POLS 4334 and POLS 4335.

[2] Students may use POLS 4081 to fulfill an elective requirement when the course topic is pertinent to the Minor in Legal Studies.

Minor in Political Science

Minors in Political Science must complete 18 hours in Political Science, including:

Code	Title	Hours
Minor in Political Science		
Required Courses		
POLS 2305	American Government	3
POLS 2306	Texas Government	3
POLS Electives (Advanced)		12
Total Hours		**18**

Note: No grade below C in Political Science will count toward this minor.

Minor in Public Administration and Public Policy

Minors in Public Administration and Public Policy must complete 18 hours of Political Science. With the exceptions created in footnotes 1 and 2 below, none of the courses taken by Public Administration and Public Policy minors may be used to satisfy the requirements of any major, including a Political Science major, or any other minor.

Code	Title	Hours
Minor in Public Administration and Public Policy		
Required Courses		
POLS 2305	American Government [1]	3
POLS 2306	Texas Government [1]	3
POLS 3302	Introduction to Public Policy [2]	3
POLS 3366	Public Administration	3
Select two of the following: [2]		6
POLS 3338	Victims' Rights, Politics, and Policy	
POLS 3339	Nonprofit Organizations	
POLS 3391	Government Organization and Management	
POLS 3392	Economic Policy	
POLS 3393	Social Policy	
POLS 3395	Environmental Policy	
POLS 4081	Problems in Political Science	
POLS 4094	Political Science Internship [3]	
POLS 4095	Independent Studies	
Total Hours		**18**

1 Satisfies both the Core Curriculum requirement for Component Area VII (Political Science/Government) and the minor requirement.

2 If student is a Political Science major and a Public Administration and Public Policy Minor, POLS 3302 will satisfy the Major Foundation requirement for the major. Student will need to choose three electives from the list below to meet the 18 hour requirement for the minor.

3 POLS 4094 may be used to satisfy the one of the requirements below if the internship has been approved by the department and is relevant to the Public Administration and Public Policy minor.

Note: Students **are restricted** from minoring in both Political Science and Public Administration and Policy.

Department of Psychology & Philosophy

Interim Chair: Maria Botero, Ph.D. (mbotero@shsu.edu)
Phone: (936) 294-3052

Website: Department of Psychology and Philosophy (http://www.shsu.edu/academics/psychology-and-philosophy/)

Mission

The Department of Psychology and Philosophy supports the mission of the University and that of the College of Humanities and Social Sciences. The Department is committed to providing a quality educational environment conducive to scholarship and the acquisition of knowledge and applicable skills. We recognize that this ideal requires the effective use of faculty expertise and creativity, a sensitivity to needs of university and community, as well as a genuine concern for the abilities and goals of students.

Philosophy Program

Coordinator of Philosophy Program: Maria Botero (mbotero@shsu.edu), PhD, (936)-294-2461

Website: Philosophy Program (http://www.shsu.edu/academics/psychology-and-philosophy/philosophy/)

Highlights

- Opportunities for undergraduate scholarly research.
- Texas Gamma Chapter, the local chapter of Phi Sigma Tau, the National Honor Society in Philosophy offers networking opportunities with undergraduate students and faculty
- Philosophy Club

Suggested Minors

- Art
- Biology
- Criminal Justice
- English
- History
- Mathematics
- Music
- Photography
- Physics
- Political Science
- Psychology
- Sociology

Career Opportunities

A Philosophy major is an excellent preparation for law school. Other careers pursued by Philosophy majors include theology, teaching, systems analysis, and medicine.

Psychology Program

Information: Contact the department at (936) 294-1174 or visit CHSS 390

Website: Psychology Program (https://www.shsu.edu/academics/psychology-and-philosophy/psychology/)

Highlights

- Faculty-student collaborative research opportunities.
- Local Chapter of Psi Chi, the National Honor Society for Psychology and the Psychology Club offer networking opportunities with undergraduate and graduate students and faculty.
- Psychology faculty publish in nationally recognized scientific journals.

Suggested Minors

- Biology
- Business Administration
- Chemistry

- Communication Studies
- Criminal Justice
- Human Services
- Philosophy
- Statistics
- Special Education

Career Opportunities

The Bachelor of Science degree in Psychology is a useful and interesting program of study for liberal arts students and those desiring work in such areas as human services, public relations, correctional institutions, rehabilitation facilities, program development, and research to name just a few.

- Bachelor of Arts, Major in Philosophy (p. 832)
- Bachelor of Science, Major in Integrated Studies: Bioethics and Policy in Healthcare Concentration (p. 748)
- Bachelor of Science: Major in Integrated Studies: Law, Ethics, and Society Concentration (p. 760)
- Bachelor of Science, Major in Psychology (p. 834)
- Minor in Applied Ethics and Critical Thinking (p. 741)
- Minor in Ethics (p. 838)
- Minor in Philosophy (p. 839)
- Minor in Psychology (p. 839)

Psychology

Student Organizations and Activities

- Psi Chi Chapter, the National Honor Society for Psychology, Local Chapter
- Psychology Club
- Undergraduate Research

Scholarships

- **Psychology Endowed Scholarship in memory of John Symonds and Patrick Weber.** The funds are in memory of two of the original charter members of the department.

Please refer to the on-line Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) program for information regarding all scholarship opportunities in the Program, in the Department, and at the University.

Philosophy

Student Organizations and Activities

- Philosophy Club
- Ethics Bowl
- Texas Gamma Chapter, the local chapter of Phi Sigma Tau, the National Honor Society in Philosophy

Scholarships

- **Thomas W. Satre Endowed Scholarship.** The fund is established in memory Dr. Thomas W. Satre, Professor of Philosophy at Sam Houston State University.

Please refer to the on-line Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) program for information regarding all scholarship opportunities in this Program, in the Department, and at the University.

Director/Chair: **Jorge G Varela**

Jeffrey S Anastasi, PHD (jsa001@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Suny At Binghamton

Jaime Lynn Anderson, PHD (jla068@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MS, Eastern Kentucky University; BA, Univ of Dayton; BA, Univ of Dayton

Michael Arvanitopoulos, PHD (mxa258@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; AM, Univ of South Florida; BA, Suny At Stoneybrook

Esther Clara Hudson Augustine, AM (ech007@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, AM, Catholic University-America; AB, Univ of St Thomas; BS, Univ of St Thomas

Zachary Charles Bachman, PHD (zcb006@shsu.edu), *Senior Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Calif-Riverside; MA, Texas A&M University; BA, Univ of Calif-San Diego

Janella Kay Baxter, PHD (jxb211@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Illinois-Chicago; MA, Univ of Colorado; BA, Seattle University

Marcus T Boccaccini, PHD (psy_mtb@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Univ of Santa Clara

Maria Del Pi Botero Jaramillo, PHD (mdb037@shsu.edu), *Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, York University; MA, York University; BA, Universidad Javeriana

Thomas John Brommage, PHD (tjb039@shsu.edu), *Senior Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Manhattanville College

John Phillip Burnett, PHD (jpb006@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Stephen F Austin University; SSP, Sam Houston State University; BS, Sam Houston State University

Kiana Ellen Cano, PHD (kec112@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Univ of Houston-Main

Daniella Kelleigh Cash, PHD (dkc025@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, LSU & A&M College; MA, Univ of Alabama-Huntsville; BS, Florida Southern College

Michelle M Castanon, PSYD (mmc039@shsu.edu), *Psychologist-Counseling Ctr; Adjunct Faculty*, *Department of Psychology & Philosophy*, PSYD, Argosy University; MA, Argosy University; MA, St Mary's University; BA, Our Lady of Lake University

Tara Diyanne Clover, MA (tclover@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University

Alan C Clune, PHD (phl_acc@shsu.edu), *Senior Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, University at Buffalo, Suny; MS, Rensselaer Poly Inst; BS, Worcester Polytechni

Mary A. Conroy, PHD (psy_mac@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Colorado State University; BA, Michigan State University

James William Crosby, PHD (jwc014@shsu.edu), *Professor of Psychology and Associate Dean CHSS*, *Department of Psychology & Philosophy*, PHD, Oklahoma State University; MS, Abilene Christian University; BS, Abilene Christian University

Susan Cromwell Duncan, PHD (scd042@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Abilene Christian University; BS, Sam Houston State University

Nathan A Eckstrand, PHD (nae013@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, PHD, Duquesne University; MA, Boston College; BA, Earlham College

Jessica S Elkayam, PHD (jse018@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Villanova University; MA, Villanova University; BA, Depaul University

Gulden Esat, PHD (gxe020@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MED, Univ of Massachusetts-Amherst; BA, Bogazici University

Charlotte Rebekah Esplin, PHD (cre032@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Brigham Young University; MS, Brigham Young University; BS, Brigham Young University

Amber Elizabeth George, PHD (aeg079@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Suny College At Cortland

Stuart West Gurley, PHD (swg003@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of New Mexico; BA, Austin College; BA, Austin College

Craig E Henderson, PHD (ceh003@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of North Texas; MA, Hardin Simmons University; BS, Howard Payne University; BS, Howard Payne University

Marcia Lynn Jackson, PHD (mlj064@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Walden University; MS, Radford University; BA, Virginia Wesleyan College

Gretchen L Jefferson, PHD (glj008@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Oregon

Alexander L Langley, MS (all141@shsu.edu), *Lecturer-Pool Faculty of Psychology*, *Department of Psychology & Philosophy*, MS, Univ of North Texas; BS, Henderson State University

Hillary Anne Langley, PHD (hlangley@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of N Carolina-Chapel Hill; BA, Univ of N Carolina-Chapel Hill

Jessica Ruth Lee, MA (jrl035@shsu.edu), *Senior Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

Ryan J Marek, PHD (rxm147@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Kent State University; MA, Kent State University; BS, John Carroll University

Emily Jane McClellan, MA (ejg001@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

Thomas James Meagher, PHD (tjm101@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Connecticut; MA, Univ of Connecticut; BA, Univ of Calif-Berkeley

Sabrina D MisirHiralall, EDD (sdm107@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, EDD, Montclair State University; MA, New Jersey City University; BA, New Jersey City University

Benjamin Mitchell-Yellin, PHD (bxm040@shsu.edu), *Adjunct Faculty*, *Department of Psychology & Philosophy*, PHD, Univ of Calif-Riverside; MA, Boston College; BA, Univ of Michigan

Adam P Natoli, PHD (apn017@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Adelphi University; MA, Adelphi University; MS, Eastern Michigan University; BA, Rider University

Kenneth E Noe, PHD (ken026@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Southern Illinois U-Carbondale; MA, Loyola Marymount University; BA, Georgia Southern University

Ramona M Noland, PHD (psy_rmn@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Tennessee-Knoxville; BA, Wheeling College

Audrey Flores Petty, MA (afp016@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Stephen F Austin University; BS, Stephen F Austin University

Michael Carson Pinney, MA (mcp063@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Univ of Houston-Clear Lake; BA, Univ of Texas At Austin; BA, Univ of Texas At Austin

Amy Noelle Porter, PHD (anp080@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Duquesne University; MS, Duquesne University; BS, Saint Vincent College

Chelsea Gilts Ratcliff, PHD (chelsea.ratcliff@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Trinity University

Shelley Ann Riggs, PHD (sxr142@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of Texas At Austin; BA, Univ of Texas At Austin

I Andreas Larsen Riise, MA (aar167@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Argosy University; BS, United States Military Academy

Jared Robert Ruchensky, PHD (jrr107@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Texas A&M University; BA, Creighton University

Katherine N Saunders Wickes, PHD (knw085@shsu.edu), *Lecturer-Pool Faculty of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Texas A&M University; BA, George Mason University

Nicholas Leonard Scheel, PHD (nls046@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Wisconsin-Green Bay

George Herbert Scott, PHD (ghs003@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Ponce Health Sciences Univ; MS, Ponce Health Sciences Univ; BA, Liberty University

Bradley Allen Seaberg, MA (bas029@shsu.edu), *Senior Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

David Cameron Shields, PHD (dcs048@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Regent University; MS, Nova Southeastern University; BS, University of Mount Olive

Treston Mace Smith, MA (tms061@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

Sharon Anne Thomas, PHD (sat053@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Hawaii At Manoa; MA, Univ of Kentucky

Mary Mercedes Tomkins, PHD (mmt046@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MS, Abilene Christian University; BS, Abilene Christian University

Jorge G Varela, PHD (jgv002@shsu.edu), *Professor of Psychology and Chair, Psychology and Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BA, Florida Int'L Univ

Stephen Walter White, PHD (sww012@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Mississippi; MA, Univ of Mississippi; BA, Univ of Mississippi

Mary Elizabeth Wood, PHD (mew095@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Kennesaw State University

Jiaju Wu, PHD (jxw089@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, University of Iowa; EDSP, University of Iowa; MA, East Tennessee State Univ; BS, East Tennessee State Univ

Angelena Richje Yulee-Smith, MED (ary019@shsu.edu), *Lecturer of Psychology and Philosophy*, *Department of Psychology & Philosophy*, MED, Univ of Oklahoma-Norman; BA, Chapman University

Bachelor of Arts, Major in Philosophy

Program Specific Requirements

The Philosophy Major requires 30 semester hours of course work in Philosophy.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-philosophy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Philosophy		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language [4]		14
Fine Arts (PHIL 3366 recommended) [5]		3
Major: Foundation		
PHIL 2303	Critical Thinking [3]	3
or PHIL 2352	Introduction to Contemporary Logic	
PHIL 3364	Ancient & Medieval Philosophy	3
PHIL 3365	Modern Philosophy	3
Major: Required		
PHIL Coursework [6]		21
Electives: General		
General Electives (PSYC 1301, World History, and World Literature recommended) [7]		13
Minor: Required [8]		
Minor (six hours must be advanced)		18
Total Hours		**120**

1. MATH 1332 is recommended.
2. Philosophy majors can satisfy this requirement by completing either PHIL 1301 or PHIL 2306, which will also count toward the required PHIL coursework.
3. PHIL 2303 satisfies both the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and 3 hours toward the major.
4. Four Foreign Language courses in one language required.
5. Philosophy majors can satisfy this requirement by completing PHIL 3366, which will also count toward the required PHIL coursework.
6. These 21 hours are in addition to the 9 hours of required PHIL courses listed in the Major Core. Students may satisfy this requirement by completing any PHIL courses with grades of C or better.
7. All students are required to complete a minimum of 120 hours of course work to earn their B.A. in Philosophy. Students who count any combination of PHIL 1301,PHIL 2303, PHIL 2306, or PHIL 3366 toward both the required PHIL courses/hours and other degree requirements (see footnotes 2, 3, and 4) must complete additional elective hours to reach the required 120 hours of total coursework. Students are encouraged to use this increased flexibility to take additional courses that complement their plan of study,
8. The following minor cannot be paired with this degree program: Minor in Philosophy.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

It is suggested that students visit with their advisors in choosing a minor.

In addition to advanced PHIL hours, students should use elective and/or minor hours to satisfy the 42-advanced-hour requirement.

As of Fall 2009, only grades of C or above in Philosophy Program courses (those with the prefix PHIL) will count toward the major in Philosophy.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-philosophy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area VIII (p. 90)[6]	3
Component Area IV (p. 89)[2]	3	ENGL 1302[3]	3
ENGL 1301[3]	3	HSTY 1302[4]	3
HSTY 1301[4]	3	PHIL 2303 or 2352[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area V (p. 90)	3	Component Area IX (p. 91)	1
PHIL 3364	3	Minor[8]	3
WOLC 1411[7]	4	PHIL 3365	3
		WOLC 1412[7]	4
	14		**15**

Third Year

Fall	Hours	Spring	Hours
Fine Arts (PHIL 3366 recommended)[9]	3	Minor[8]	6
General Electives [10,11]	3	PHIL Coursework[12]	6
Minor[8]	3	WOLC 2312 [7]	3
PHIL Coursework[12]	3		
WOLC 2311 [7]	3		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
General Electives[10,11]	9	Component Area IX (p. 91)	3
Minor: Advanced [8]	3	General Electives[10,11]	1
PHIL Coursework[12]	3	Minor: Advanced[8]	3
		PHIL Coursework [12]	9
	15		**16**

Total Hours: 120

1. MATH 1332 is recommended
2. Philosophy majors can satisfy this requirement by completing either PHIL 1301 or PHIL 2306, which will also count toward the required PHIL coursework.
3. Satisfies Core Curriculum requirement for Component Area I (Communications).
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6. PHIL 2303 satisfies both the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and 3 hours toward the major.
7. Four courses required in one language.
8. The following minor cannot be paired with this degree program: Minor in Philosophy.
9. Philosophy majors can satisfy this requirement by completing PHIL 3366 which will also count toward the required PHIL coursework.

[10] All students are required to complete a minimum of 120 hours of course work to earn their B.A. in Philosophy. Students who count any combination of PHIL 1301, PHIL 2303, PHIL 2306, or PHIL 3366 toward both the required PHIL courses/hours and other degree requirements (see footnotes 2, 6, and 7) must complete additional elective hours to reach the required 120 hours of total coursework. Students are encouraged to use this increased flexibility to take additional courses that complement their plan of study,

[11] PSYC 1301, World History, and World Literature recommended.

[12] These 21 hours are in addition to the 9 hours of required PHIL courses listed in the Major Core. Students may satisfy this requirement by completing any PHIL courses with grades of C or better.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

It is suggested that students visit with their advisors in choosing a minor.

In addition to advanced PHIL hours, students should use elective and/or minor hours to satisfy the 42-advanced-hour requirement.

As of Fall 2009, only grades of C or above in Philosophy Program courses (those with the prefix PHIL) will count toward the major in Philosophy.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

Students with a degree in Philosophy would graduate with the following skills,

- A well-developed capacity for synthesizing information.
- Strong critical thinking abilities.
- The ability to communicate ideas in a clear and coherent way, in both written and oral mediums.
- A well-developed capacity to understand diverse perspectives.

Bachelor of Science, Major in Psychology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-psychology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Psychology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Natural Science Electives		8
COMS 2382	Communication for Business & the Professions [2]	3
PHIL 2303	Critical Thinking [3]	3
PHIL 3372	Philosophy of Science	3
Major: Foundation [4]		
PSYC 1301	Introduction To Psychology [3]	3
PSYC 3332	History Of Psychology	3

PSYC 3401	Research Methods [5]	4
PSYC 3402	Psychological Statistics [5]	4
Major: Prescribed Electives		
Experimental Block		
Select six hours of the following:		6
PSYC 3333	Physiological Psychology	
PSYC 3336	Sensation/Perception	
PSYC 3337	Cognition	
PSYC 3391	Psychopharmacology	
PSYC 4332	Learning	
Personality-Social Development Block		
Select six hours of the following:		6
PSYC 3365	Close Relationships	
PSYC 3374	Development Psychology	
PSYC 3375	Psychopathology and Family Dynamics	
PSYC 3381	Social Psychology	
PSYC 4331	Personality	
Clinical Adjustment Block		
Select six hours of the following:		6
PSYC 2315	Psychology Of Adjustment	
PSYC 3331	Abnormal Psychology	
PSYC 3334	Human Sexuality	
PSYC 3383	Psychology And The Law	
PSYC 3385	Health Psychology	
PSYC Electives [4]		6
Electives: General		
General Electives		5
Minor: Required [4,6]		
Minor		18
Total Hours		**120**

1 MATH 1332 or MATH 1342 is recommended.

2 Or any COMS course. If COMS 2382 is used to satisfy Core Curriculum requirement for Component Area IX, additional hours will be needed to satisfy the minimum total semester credit hours of 120.

3 If PSYC 1301 or PHIL 2303 is used to satisfy Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), additional hours will be needed to satisfy the minimum total semester credit hours of 120.

4 In order to complete a major in Psychology, a student takes 14 hours from the Required Courses plus 6 hours from each of the specialized blocks, and six hours of elective Psychology courses. Students make take *Philosophy of Psychology and Mind* (PHIL 4361; three credits) toward meeting the Psychology elective requirement.
Psychology majors choose an approved minor of 18 semester hours, 6 of which must be advanced.
Students should use elective and/or minor hours to satisfy the 42 advanced-hour requirement.

5 Please, note that majors must take PSYC 3401 and PSYC 3402 in the Psychology Program once the student has enrolled at Sam Houston State University, unless the course has been transferred into the program. Only grades of C or above in Psychology Program courses (those with the prefix PSYC) will count toward the major in Psychology.

6 The following minor cannot be paired with this degree program: Minor in Psychology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

In order to complete a major in Psychology, a student takes 14 hours from the Required Courses plus 6 hours from each of the specialized blocks, and six hours of elective Psychology courses.

Psychology majors choose an approved minor of 18 semester hours, 6 of which must be advanced. The following minor cannot be paired with this degree program: Minor in Psychology.

Students should use elective and/or minor hours to satisfy the 42 advanced-hour requirement.

Please note that majors must take PSYC 3401 and PSYC 3402 in the Psychology Program once the student has enrolled at Sam Houston State University, unless the course has been transferred into the program. Only grades of C or above in Psychology Program courses (those with the prefix PSYC) will count toward the major in Psychology.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-psychology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	ENGL 1302[2]	3
Component Area IX (p. 91)	3	HSTY 1301[4]	3
ENGL 1301[2]	3	POLS 2305[5]	3
PSYC 1301[3]	3	PSYC 3332	3
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	Component Area IV (p. 89)	3
HSTY 1302[4]	3	Natural Science Electives	4
Natural Science Electives	4	PHIL 2303[3]	3
POLS 2306[5]	3	PSYC 3401[6]	4
PSYC 3402[6]	4		
	15		**14**

Third Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	General Electives	5
Component Area VIII (p. 90)	3	Minor[7]	3
Minor [7]	3	Minor [7]	3
Prescribed Electives[8]	3	Prescribed Electives[8]	3
Prescribed Electives[8]	3	Prescribed Electives[8]	3
	15		**17**

Fourth Year

Fall	Hours	Spring	Hours
Minor [7]	6	COMS 2382[9]	3
PHIL 3372	3	Minor [7]	3
Prescribed Electives[8]	3	PSYC Electives	6
		Prescribed Electives[8]	3
	12		**15**

Total Hours: 120

1. MATH 1332 or MATH 1342 is recommended.
2. Satisfies Core Curriculum requirement for Component Area I (Communications).
3. If PSYC 1301 or PHIL 2303 is used to satisfy Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), additional hours will be needed to satisfy the minimum total semester credit hours of 120.
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6. Please, note that majors must take PSYC 3401 and PSYC 3402 in the Psychology Program once the student has enrolled at Sam Houston State University, unless the course has been transferred into the program. Only grades of C or above in Psychology Program courses (those with the prefix PSYC) will count toward the major in Psychology.

[7] The following minor cannot be paired with this degree program: Minor in Psychology.

[8] Prescribed Electives include the following PSYC Elective Blocks:
See, below Experimental Block course list (select two).
See, below Personality-Social Development Block course list (select two).
See, below Clinical-Adjustment Block course list (select two).

[9] Or any COMS course. If COMS 2382 is used to satisfy Core Curriculum requirement for Component Area IX, additional hours will be needed to satisfy the minimum total semester credit hours of 120.

Code	Title	Hours
Experimental Block Courses [8]		
Select two of the following:		
PSYC 3333	Physiological Psychology	3
PSYC 3336	Sensation/Perception	3
PSYC 3337	Cognition	3
PSYC 3391	Psychopharmacology	3
PSYC 4332	Learning	3

Code	Title	Hours
Personality-Social Development Block Courses [8]		
Select two of the following:		
PSYC 3365	Close Relationships	3
PSYC 3374	Development Psychology	3
PSYC 3375	Psychopathology and Family Dynamics	3
PSYC 3381	Social Psychology	3
PSYC 4331	Personality	3

Code	Title	Hours
Clinical-Adjustment Block Courses [8]		
Select two of the following:		
PSYC 2315	Psychology Of Adjustment	3
PSYC 3331	Abnormal Psychology	3
PSYC 3334	Human Sexuality	3
PSYC 3383	Psychology And The Law	3
PSYC 3385	Health Psychology	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

In order to complete a major in Psychology, a student takes 14 hours from the Required Courses plus 6 hours from each of the specialized blocks, and six hours of elective Psychology courses.

Psychology majors choose an approved minor of 18 semester hours, 6 of which must be advanced. The following minor cannot be paired with this degree program: Minor in Psychology.

Students should use elective and/or minor hours to satisfy the 42 advanced-hour requirement.

Please note that majors must take PSYC 3401 and PSYC 3402 in the Psychology Program once the student has enrolled at Sam Houston State University, unless the course has been transferred into the program. Only grades of C or above in Psychology Program courses (those with the prefix PSYC) will count toward the major in Psychology.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Psychology is designed to provide graduates with the following marketable skills:

- Exhibit effective oral presentation skills.
- Gain experience working with diverse groups of people who are collaborating to achieve a common goal.
- Engage in innovative and integrative thinking and problem solving.
- Design, conduct, and interpret basic psychological research by developing creative research hypotheses and testing those hypotheses.

Minor in Ethics

Students seeking a minor in Ethics are required to complete a minimum of 18 semester credit hours.

Code	Title	Hours
Minor in Ethics		
Required Courses		
PHIL 2306	Contemporary Moral Issues	3
PHIL 2303	Critical Thinking	3
PHIL 4363	Ethical Theories	3
Prescribed Electives		
Choose three of the following		9
PHIL 3373	American Philosophy	
PHIL 4333	Bioethics	
PHIL 4334	Environmental Ethics	
PHIL 4336	Philosophy of Law	
PHIL 4371	Death and Dying	
PHIL 4374	Philosophy of Crime & Justice	
PHIL 4375	Feminist Philosophies	
PHIL 4377	Philosophy of Race	
Students may choose one of the following substantive ethics content courses in lieu of one PHIL elective listed above: [1]		
GEOG 3350	Cultural Geography	
GEOG 4331	Conservation of Natural Resources	
HSTY 3373	Black Civil Rights Movement	
HSTY 3396	Gender and Sexualities	
HIST 3373	Topics in the History of Science and Medicine	
LALS 3340	Latin American and Latinx Gender Studies	
POLS 3372	Contemporary Political Theory	
POLS 3377	Survey of Political Theory	
POLS 4383	International Human Rights	
SOCI 3324	Social Inequality	
SOCI 3325	Gender And Inequality	
SOCI 3354	Sociology of the Life Course	
SOCI 3355	Racial and Ethnic Inequality	
SOCI 4337	Environment And Society	
Total Hours		**18**

[1] Students may, but are not required to, apply at most one non-philosophy course toward the elective component of the ethics minor. Students may petition philosophy program coordinator to apply a course with substantive ethics content that is not on this list toward the elective component. Double dipping of this course with major is permitted.

Note: Students pursuing the Philosophy Major **may not** count any course used in satisfying the requirements of that major toward the Minor in Ethics or the traditional Minor in Philosophy. Additionally, a student **may not** count the same course toward both minors.

Minor in Philosophy

Students seeking a minor in Philosophy are required to complete a minimum of 18 semester credit hours:

Code	Title	Hours
Minor in Philosophy		
Required Courses		
PHIL 2303	Critical Thinking	3
or PHIL 2352	Introduction to Contemporary Logic	
Prescribed Electives		
PHIL Electives		9
PHIL Advanced Electives		6
Total Hours		**18**

Minor in Psychology

Students seeking a minor in Psychology are required to complete a minimum of 18 semester credit hours:

Code	Title	Hours
Minor in Psychology		
Required Courses		
PSYC 1301	Introduction To Psychology	3
Experimental Block [1]		3
Personality-Social-Development Block [2]		3
Clinical-Adjustment Block [3]		3
PSYC Advanced Hours		6
Total Hours		**18**

1 **Experimental Block** select 3 hours from the course listing below.
2 **Personality-Social Development Block** select 3 hours from the course listing below.
3 **Clinical-Adjustment Block** select 3 hours from the course listing below.

Code	Title	Hours
Experimental Block [1]		
Select one of the following:		
PSYC 3333	Physiological Psychology	3
PSYC 3336	Sensation/Perception	3
PSYC 3337	Cognition	3
PSYC 3382	Comparative Psychology	3
PSYC 3391	Psychopharmacology	3
PSYC 4332	Learning	3
PSYC 4392	Industrial/Organizational Psychology	3

Code	Title	Hours
Personality-Social Development Block [2]		
Select one of the following:		
PSYC 3365	Close Relationships	3
PSYC 3374	Development Psychology	3
PSYC 3375	Psychopathology and Family Dynamics	3
PSYC 3381	Social Psychology	3
PSYC 4331	Personality	3
PSYC 4334	Applied Social Psychology	3
PSYC 4374	Psychology of the Elderly	3

Code	Title	Hours
Clinical-Adjustment Block [3]		
Select one of the following:		
PSYC 2315	Psychology Of Adjustment	3
PSYC 3331	Abnormal Psychology	3
PSYC 3334	Human Sexuality	3
PSYC 3383	Psychology And The Law	3
PSYC 3385	Health Psychology	3

Department of Sociology

Chair: Dr. Bart Stykes (jbs048@shsu.edu) (jtk007@shsu.edu)(936) 294-4122

Information: Tamara Draper (tjd009@shsu.edu) (936) 294-1512; CHSS 270X

Website: Department of Sociology (http://www.shsu.edu/academics/sociology/)

Mission

Sociology is a discipline concerned with equality, justice, and social responsibility within society's cultural, political, and economic systems. The mission of the Sociology Department at Sam Houston State University is to cultivate sociological mindfulness, which involves understanding how social forces and cultural contexts shape people's experiences, how personal troubles are connected to broader social issues, and how social arrangements create both constraints and opportunities for individuals and groups. Sociological mindfulness promotes critical and analytical thinking and equips students with the theoretical, methodological, and communication skills to work with others to solve problems and improve social conditions in local communities and the broader society.

Programs

The Sociology Department offers a Bachelor of Arts, a Bachelor of Science, and a Minor in Sociology. The BA and BS programs provide students with strong conceptual and methodological foundations, training in applied methods, and a wide range of elective course options. All our programs are offered both in-person and online. The department is also home to two interdisciplinary minors. The Minor in Community Leadership gives students the knowledge, skills, and experience to be agents of change in their communities. The Minor in Cultural Competency offers students an understanding of pluralistic workplaces and communities and uniquely equips students to participate in civic life, advance in their careers, and contribute to a just society.

Program Learning Outcomes

Students who major and minor in sociology gain proficiency and expertise in a wide range of skills:

- Knowledge and experience in problem-solving, data analysis, and critical thinking.
- Appreciation for cultural differences and experience working on diverse teams.
- Written and verbal communication skills.
- Interpersonal and cross-cultural communication skills.
- Experience using conceptual frameworks and diverse research methods to think systematically about and assess equality, justice, and social responsibility within society's institutions.
- The ability to identify practical solutions to an array of social problems and help improve social conditions in their local communities and the broader society.

Highlights

- The Sociology Department focuses on excellent teaching.
- The sociology faculty collaborate with undergraduates on research and the Sociology Department sponsors undergraduate research, including presentations at regional and national conferences.
- The Sociology Department offers an internship program that provides students with hands-on experience and work experience.
- Members of the Sociology Department have published books, textbooks, and journal articles, as well as, maintain active research programs in diverse areas.

Suggested Minors

- Communication Studies
- Community Leadership
- Criminal Justice
- Health Education
- History
- Human Services
- Latin American and Latinx Studies
- Middle Eastern Studies
- Political Science
- Psychology

Career Opportunities

Sociology graduates find successful employment in the private sector (management, human resources, public relations, research); public sectors (Federal, State and Local Government agencies), and in non-profit organizations (NGOs) in the areas of social services, civic engagement, and advocacy.

Career paths include:

- Non-profit advocacy
- Market research and data analysis
- Government, law, and court professions
- Case management and child protective service
- Private and public sector work in sales and supervision
- Human resource management and public relations
- Education and teaching

Curriculum

The sociology curriculum is focused on developing sociological perspectives and providing students with the skills and tools to be successful both in their future careers and as engaged members of society. All of the sociology degree programs emphasize critical and analytical thinking, and theoretical, methodological, and communication skills that equip students to solve problems and improve social conditions in local communities and the broader society. The sociology Bachelor of Arts and Science programs include core, applied core, and elective courses. The applied core consists of skill-based courses that provide students with research and analytical skills that are applicable across a range of fields and careers. Students can choose any five electives and thus, can customize their sociology major to fit with their interests. Sociology minors have three required core classes and then can choose any three electives. All sociology programs, except the Minor in Community Leadership, are offered both in-person and online. Students can complete their sociology program requirements in-person, online, or through a combination of the two formats. As part of their sociology program, students are encouraged to participate in research projects and extra-curricular activities designed to foster sociological thinking and application.

Students must successfully complete SOCI 1301 or SOCI 2319 (p. 1303) before taking additional sociology courses with the exception of SOCI 3324 (p. 1303), SOCI 3381, SOCI 3341, SOCI 4337, and SOCI 4339. The only substitution permitted is Psychology Statistics (PSYC 3402) for Social Statistics (SOCI 3345).

Code	Title	Hours
SOCI Core Courses		
SOCI 1301	Introduction to Sociology	3
or SOCI 2319	Introduction To Ethnic Studies	
SOCI 2399	Writing in Sociology	3
SOCI 3324	Social Inequality	3
SOCI 3370	Research Methods in Sociology	3
SOCI 4344	Sociological Theory	3
Total Hours		**15**

Code	Title	Hours
Applied Core		
SOCI 3345	Social Statistics	3
SOCI 3371	Qualitative Methods	3
SOCI 3372	Demographic Techniques	3
SOCI 3373	Social Program Evaluation	3
SOCI 3377	Community Planning and Development	3
SOCI 4379	Internship In Applied Sociolgy	3

Code	Title	Hours
Elective Courses		
SOCI 3305	Introduction to Community Leadership	3
SOCI 3325	Gender And Inequality	3
SOCI 3327	Sociology of Popular Culture	3
SOCI 3335	Food and Society	3
SOCI 3341	Marriage And The Family	3

SOCI 3344	Sociology of Education	3
SOCI 3354	Sociology of the Life Course	3
SOCI 3355	Racial and Ethnic Inequality	3
SOCI 3365	Sociology Of Health & Illness	3
SOCI 3376	Rural And Urban Sociology	3
SOCI 3381	Cultural Anthropology	3
SOCI 3383	Sociology of Latin America	3
SOCI 3384	Economy And Society	3
SOCI 3392	Social Movements	3
SOCI 4330	Sociology of Immigration	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4337	Environment And Society	3
SOCI 4339	Development & Sustainability	3

Arranged Courses

Code	Title	Hours
Arranged Courses		
SOCI 4075	Readings in Sociology	1-3
SOCI 4379	Internship In Applied Sociolgy	3

- Bachelor of Arts, Major in Sociology (p. 845)
- Bachelor of Science, Major in Integrated Studies: Bioethics and Policy in Healthcare Concentration (p. 748)
- Bachelor of Science, Major in Sociology (p. 848)
- Minor in Community Leadership (p. 852)
- Minor in Cultural Competency (p. 853)
- Minor in Sociology (p. 854)

Research

The department strongly encourages and supports undergraduate student research and research collaborations with faculty members. SHSU sociology majors and minors regularly present their papers at regional and national conferences and publish their work in academic student journals.

Participating in research provides numerous benefits to students. It offers students opportunities to get hands-on experience, participate in professional activities, apply their knowledge, test out potential careers, and build up their resume. Student participation in research enhances intellectual, communication, and teamwork skills.

The Sociology Faculty looks forward to working with students on research projects. You can learn more about faculty research interests and projects of the sociology faculty by contacting the Department Chair at jstykes@shsu.edu.

Student Organizations and Activities

Students in the Sociology Club and Alpha Kappa Delta, the Sociology professional honor society, are introduced to the profession of Sociology through activities including: research opportunities, volunteer work, organization of special events, participation in professional meetings, and programs highlighting speakers of note in the many interest areas of Sociology.

Internships

Internship opportunities are available for senior Sociology majors. Interns are placed with employers, including social service organizations, government agencies, healthcare facilities, and private companies. More information about the Internship Program can be found online at the Department of Sociology: Internships (https://www.shsu.edu/academics/sociology/internships/).

Scholarships

The department offers several scholarships. For information contact the department or visit the Sociology Department (http://www.shsu.edu/academics/sociology/).

Director/Chair: **James Bartlett Stykes**

Emily R Cabaniss, PHD (erc016@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, North Carolina State Univ; MA, Univ of N Carolina-Greensboro; BA, Univ of N Carolina-Greensboro

Caron Charlton Cates, MA (soc_ccc@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, MA, Sam Houston State University; BS, Sam Houston State University

Jin Young Choi, PHD (jyc002@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Univ of Hawaii At Manoa; MA, Univ of Hawaii At Manoa; MPH, Univ of Hawaii At Manoa; MS, Ewha Women's University; BS, Ewha Women's University

Douglas H Constance, PHD (soc_dhc@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Univ of Missouri-Columbia; MS, Univ of Missouri-Columbia; BS, Univ of Missouri-Columbia

Furjen Deng, PHD (soc_fjd@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Purdue University; MS, Purdue University; BA, National Taiwan University

Karen M Douglas, PHD (kmd007@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Jeffrey A Gardner, PHD (jag175@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Georgia; MA, Univ of Georgia; BA, Brigham Young University-Idaho

TzeLi Hsu, PHD (thsu@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Florida State University; MS, Mississippi State University; BA, National Taiwan University

Dustin Patrick Kay, MA (dpk009@shsu.edu), *Lecturer-Pool Faculty of Sociology*, *Department of Sociology*, MA, Sam Houston State University

Olena Viacheslavivna Leipnik, PHD (oxl001@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Kharkiv VN Karazin Nat'l Univ; MA, Luhansk T. S. Pedagogical Univ; MA, Kyiv Taras Shevchenko Nat'l Un; BA, Kyiv Taras Shevchenko Nat'l Un

Lee Mary Miller, PHD (lee.miller@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; AB, Smith College

Haitrieu Thi Nguyen, MA (htn003@shsu.edu), *Lecturer of Sociology*, *Department of Sociology*, MA, Sam Houston State University; BA, Southwestern University

Mary Larue Scherer, PHD (mxs168@shsu.edu), *Assistant Professor of Sociology*, *Department of Sociology*, PHD, Univ of Massachusetts-Amherst; MA, Univ of Massachusetts-Amherst; BA, Warren Wilson College

Zeinab F Shuker, PHD (zfs003@shsu.edu), *Assistant Professor of Sociology*, *Department of Sociology*, PHD, Univ of Calif-Riverside; MA, Univ of Calif-Riverside; MA, The University of Memphis; BA, The University of Memphis

Chance Adam Smith, PHD (cas280@shsu.edu), *Lecturer of Sociology*, *Department of Sociology*, PHD, Cornell University; MA, Cornell University; BS, Univ of Houston-Main

Limesha Monique Solomon, MA (lmh056@shsu.edu), *Lecturer of Sociology*, *Department of Sociology*, MA, Sam Houston State University; MED, Sam Houston State University; BA, Univ of North Texas

James Bartlett Stykes, PHD (jbs048@shsu.edu), *Associate Professor and Acting Chair of Sociology*, *Department of Sociology*, PHD, Bowling Green State University; MA, Bowling Green State University; BS, Austin Peay State University

Brooklynn Joy Wynveen, PHD (bjw028@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Clemson University; MNRD, Texas A&M University; BA, Univ of Maryland-Univ Coll

Bachelor of Arts, Major in Sociology

The **Bachelor of Arts in Sociology** requires a minimum of 120 hours of coursework, including the SHSU Core Requirements (42 hours), Degree Specific Requirements (15 hours – 14 hours of Foreign Language and 1 hour of NGLI 1101), Sociology Core, Applied Core, and Electives (36 hours), a minor (18 hours), and 9 additional hours of general electives. The coursework should be distributed as follows:

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-sociology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Sociology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [1,2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3,4]		4
Degree Specific Requirements		
Foreign Language [1,4]		14
NGLI 1101	Research in the Digital Age [3]	1
Major: Foundation		
SOCI 1301	Introduction to Sociology [2]	3
or SOCI 2319	Introduction To Ethnic Studies	
SOCI 2399	Writing in Sociology	3
SOCI 3324	Social Inequality	3
SOCI 3370	Research Methods in Sociology	3
SOCI 4344	Sociological Theory	3
Major: Required		**6**
Select two of the following:		6
SOCI 3345	Social Statistics	
SOCI 3371	Qualitative Methods	
SOCI 3372	Demographic Techniques	
SOCI 3373	Social Program Evaluation	
SOCI 3377	Community Planning and Development	
SOCI 4379	Internship In Applied Sociolgy	
Major: Prescribed Electives		
SOCI Electives		
Select five of the following:		15
SOCI 3305	Introduction to Community Leadership	
SOCI 3325	Gender And Inequality	
SOCI 3327	Sociology of Popular Culture	
SOCI 3335	Food and Society	
SOCI 3341	Marriage And The Family	
SOCI 3344	Sociology of Education	
SOCI 3354	Sociology of the Life Course	
SOCI 3355	Racial and Ethnic Inequality	
SOCI 3365	Sociology Of Health & Illness	
SOCI 3376	Rural And Urban Sociology	
SOCI 3381	Cultural Anthropology	
SOCI 3383	Sociology of Latin America	

SOCI 3384	Economy And Society	
SOCI 3392	Social Movements	
SOCI 4330	Sociology of Immigration	
SOCI 4334	Sociology Of Disaster	
SOCI 4337	Environment And Society	
SOCI 4339	Development & Sustainability	
Electives: Advanced		**9**
Advanced Electives		
Minor: Required [5]		
Minor		18
Total Hours		**120**

1 If the 2000 level foreign language courses are used to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), additional hours will be needed to satisfy the minimum total semester credit hours of 120.

2 If SOCI 1301 is used to partially satisfy Component Area VIII, elective hours must be increased to reach 120 hours. If SOCI 2319 is used to partially satisfy Component Area IV, elective hours must be increased to reach 120 hours.

3 If NGLI 1101 is used to satisfy one hour of the Core Curriculum requirement for Component Area IX (Component Area IX), additional hour will be needed to satisfy the minimum total semester credit hours of 120.

4 Four courses required in one World Language. The 2000 Foreign Language courses satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well 3 hours of Component Area IX (Component Area Option).

5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.

If the student uses the Foreign Language requirement to satisfy both the Core and Degree Specific requirements, additional electives will be need to reach 120 hours.

A minimum of 42 advanced hours is required.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-sociology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)		3 Component Area III (p. 89)	4
ENGL 1301[1]		3 Component Area V (p. 90)	3
HSTY 1301[2]		3 ENGL 1302[1]	3
POLS 2305[3]		3 HSTY 1302[2]	3
SOCI 1301 or 2319[4]		3 POLS 2306[3]	3
		15	**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Foreign Language [7]	4
Component Area IX (p. 91)		3 Minor[5]	3
Minor [5]		3 Minor[5]	3
SOCI 3324		3 SOCI 2399	3
SOCI Electives [6]		3 SOCI Electives [6]	3
		16	**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)		1 Advanced Electives	3
Foreign Language[7]		4 Foreign Language[7]	3
Minor[5]		3 Major: Required [9]	3
NGLI 1101[8]		1 Minor[5]	3
SOCI 3370		3 SOCI Electives[6]	3
SOCI Electives [6]		3	
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives		6 Advanced Electives	6
Foreign Language [7]		3 SOCI 4344	3
Major: Required [9]		3 SOCI Electives [6]	3
Minor[5]		3	
		15	**12**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
4 If SOCI 1301 is used to partially satisfy Component Area VIII, elective hours must be increased to reach 120 hours. If SOCI 2319 is used to partially satisfy Component Area IV, elective hours must be increased to reach 120 hours.
5 All minors can be paired with this degree program.
6 See, SOCI Electives course list below.
7 Four courses required in one World Language. The 2000 Foreign Language courses satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well 3 hours of Component Area IX (Component Area Option).
8 If NGLI 1101 is used to satisfy one hour of the Core Curriculum requirement for Component Area IX (Component Area IX), additional hour will be needed to satisfy the minimum total semester credit hours of 120.
9 Choose two of the Major Required courses listed below: SOCI 3345, SOCI 3371, SOCI 3372, SOCI 3377, or SOCI 4379.

Code	Title	Hours
SOCI Electives [6]		**15**
Select five from the following:		
SOCI 3305	Introduction to Community Leadership	
SOCI 3325	Gender And Inequality	
SOCI 3327	Sociology of Popular Culture	
SOCI 3335	Food and Society	
SOCI 3341	Marriage And The Family	
SOCI 3344	Sociology of Education	
SOCI 3354	Sociology of the Life Course	
SOCI 3355	Racial and Ethnic Inequality	
SOCI 3365	Sociology Of Health & Illness	
SOCI 3376	Rural And Urban Sociology	
SOCI 3381	Cultural Anthropology	
SOCI 3383	Sociology of Latin America	
SOCI 3384	Economy And Society	
SOCI 3392	Social Movements	
SOCI 4330	Sociology of Immigration	
SOCI 4334	Sociology Of Disaster	
SOCI 4337	Environment And Society	
SOCI 4339	Development & Sustainability	

Code	Title	Hours
Major: Required [9]		**6**
SOCI 3345	Social Statistics	
SOCI 3371	Qualitative Methods	
SOCI 3372	Demographic Techniques	
SOCI 3373	Social Program Evaluation	
SOCI 3377	Community Planning and Development	
SOCI 4379	Internship In Applied Sociolgy	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.

If the student uses the Foreign Language requirement to satisfy both the Core and Degree Specific requirements, additional electives will be need to reach 120 hours.

A minimum of 42 advanced hours is required.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Sociology is designed to provide graduates with the following marketable skills:

- Knowledge and experience at problem solving, data analysis, and critical thinking.
- Interpersonal and cross-cultural communication skills.
- The skills necessary to be productive members of diverse teams.
- The use of conceptual frameworks to understand and assess equality, justice, and social responsibility within society's cultural, political, and economic systems.
- The skills to solve problems and improve social conditions in local communities and the broader society.

Career paths include:

- Non-profit advocacy
- Market research and data analysis
- Government, law, and court professions
- Case management and child protective service
- Private and public sector work in sales and supervision
- Human resource management and public relations
- Education and teaching

Bachelor of Science, Major in Sociology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-sociology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The **Bachelor of Science in Sociology** requires a minimum of 120 hours of coursework, including the SHSU Core Requirements (42 hours), Degree Specific Requirements (12 hours – 8 hours of Natural Sciences, 3 hours of Math, and 1 hour of NGLI), Sociology Core, Applied Core, and Electives (36 hours), a minor (18 hours), and 12 additional hours of general and/or advanced electives. The coursework should be distributed as follows:

Code	Title	Hours
Bachelor of Science, Major in Sociology		
Core Curriculum (p. 88)		

Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Natural Sciences [2]		8
Math [2]		3
NGLI 1101	Research in the Digital Age [3]	1
Major: Foundational		
SOCI 1301	Introduction to Sociology	3
or SOCI 2319	Introduction To Ethnic Studies	
SOCI 2399	Writing in Sociology	3
SOCI 3324	Social Inequality	3
SOCI 3370	Research Methods in Sociology	3
SOCI 4344	Sociological Theory	3
Major: Required (Take any two)		**6**
SOCI 3345	Social Statistics	
SOCI 3371	Qualitative Methods	
SOCI 3372	Demographic Techniques	
SOCI 3373	Social Program Evaluation	
SOCI 3377	Community Planning and Development	
SOCI 4379	Internship In Applied Sociolgy	
Major: Prescribed Electives (Take any five)		**15**
SOCI Electives		
Select five from the following:		
SOCI 3305	Introduction to Community Leadership	
SOCI 3325	Gender And Inequality	
SOCI 3327	Sociology of Popular Culture	
SOCI 3335	Food and Society	
SOCI 3341	Marriage And The Family	
SOCI 3344	Sociology of Education	
SOCI 3354	Sociology of the Life Course	
SOCI 3355	Racial and Ethnic Inequality	
SOCI 3365	Sociology Of Health & Illness	
SOCI 3376	Rural And Urban Sociology	
SOCI 3381	Cultural Anthropology	
SOCI 3383	Sociology of Latin America	
SOCI 3384	Economy And Society	
SOCI 3392	Social Movements	
SOCI 4330	Sociology of Immigration	
SOCI 4334	Sociology Of Disaster	
SOCI 4337	Environment And Society	
SOCI 4339	Development & Sustainability	
Electives: Advanced		
Advanced Electives		12
Minor: Required [4]		

Minor	18
Total Hours	**120**

1 MATH 1332 or MATH 1342 is recommended.
2 In addition to the core.
3 If a student takes NGLI 1101 to satisfy Component Area IX and Degree Specific Requirements, additional elective credit will be needed.
4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.

If SOCI 1301 (p. 1303) is used to partially satisfy Component Area VIII, elective hours must be increased to reach 120 hours.

If SOCI 2319 is used to partially satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), elective hours must be increased to reach 120 hours.

A minimum of 42 advanced hours is required.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-sociology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)	3	Component Area III (p. 89)	4
ENGL 1301[1]	3	Component Area V (p. 90)	3
HSTY 1301[2]	3	ENGL 1302[1]	3
POLS 2305[3]	3	HSTY 1302[2]	3
SOCI 1301 or 2319	3	POLS 2306[3]	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Minor[5]	3
MATH [4]	3	Minor[5]	3
Minor[5]	3	Natural Sciences [4]	4
SOCI 3324	3	SOCI 2399	3
SOCI Electives[6]	3	SOCI Electives[6]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	Component Area IX (p. 91)	3
Minor[5]	3	Advanced Electives	3
Natural Sciences[4]	4	Major: Required [8]	3
NGLI 1101[7]	1	Minor[5]	3
SOCI 3370	3	SOCI Electives[6]	3
SOCI Electives[6]	3		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives	3	Advanced Electives	3

Advanced Electives	3 Advanced Electives	3
Advanced Electives	3 SOCI 4344	3
Major: Required [8]	3 SOCI Electives[6]	3
Minor[5]	3	
	15	**12**

Total Hours: 120

1 Satisfies requirement for Component Area I (Communication).
2 Satisfies requirement for Component Area VI (U.S. History).
3 Satisfies the requirement for Component Area VII (Political Science/Government).
4 In addition to the core.
5 All minors can be paired with this degree program.
6 Select from Major: Prescribed Electives (SOCI Electives) listed below.
7 If a student takes NGLI 1101 to satisfy Component Area IX and Degree Specific Requirements, additional elective credit will be needed.
8 Select from the Major: Required courses listed below.

Code	Title	Hours
Major: Prescribed Electives [6]		
SOCI Electives [6]		
SOCI 3305	Introduction to Community Leadership	3
SOCI 3325	Gender And Inequality	3
SOCI 3327	Sociology of Popular Culture	3
SOCI 3335	Food and Society	3
SOCI 3341	Marriage And The Family	3
SOCI 3344	Sociology of Education	3
SOCI 3354	Sociology of the Life Course	3
SOCI 3355	Racial and Ethnic Inequality	3
SOCI 3365	Sociology Of Health & Illness	3
SOCI 3376	Rural And Urban Sociology	3
SOCI 3381	Cultural Anthropology	3
SOCI 3383	Sociology of Latin America	3
SOCI 3384	Economy And Society	3
SOCI 3392	Social Movements	3
SOCI 4330	Sociology of Immigration	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4337	Environment And Society	3
SOCI 4339	Development & Sustainability	3

Code	Title	Hours
Major: Required Courses [8]		
SOCI 3345	Social Statistics	3
SOCI 3371	Qualitative Methods	3
SOCI 3372	Demographic Techniques	3
SOCI 3373	Social Program Evaluation	3
SOCI 3377	Community Planning and Development	3
SOCI 4379	Internship In Applied Sociolgy	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.

If SOCI 1301 is used to satisfy Component Area VIII, elective hours must be increased to reach 120 hours.

If SOCI 2319 is used to partially satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), elective hours must be increased to reach 120 hours.

A minimum of 42 advanced hours is required.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Sociology is designed to provide graduates with the following marketable skills:

- Knowledge and experience at problem solving, data analysis, and critical thinking.
- Interpersonal and cross-cultural communication skills.
- Skills necessary to be productive members of diverse teams.
- Use of conceptual frameworks to understand and assess equality, justice, and social responsibility within society's cultural, political, and economic systems.
- Problem-solving skills to improve social conditions in local communities and the broader society.

Career paths include:

- Non-profit advocacy
- Market research and data analysis
- Government, law, and court professions
- Case management and child protective service
- Private and public sector work in sales and supervision
- Human resource management and public relations
- Education and teaching

Minor in Community Leadership

The Minor in Community Leadership provides students with knowledge, skills, and dispositions to be agents of change in their communities. Students begin the minor with the foundational Intro to Community Leadership SOCI 3305 (http://catalog.shsu.edu/undergraduate/course-descriptions/soci/) and strengthen their communication skills in Intercultural Communication COMS 3370 (http://catalog.shsu.edu/undergraduate/course-descriptions/coms/). Once students have completed SOCI 3305 (http://catalog.shsu.edu/undergraduate/course-descriptions/soci/) and are in their senior year, they are eligible to enroll in the capstone internship course SOCI 4379 (http://catalog.shsu.edu/undergraduate/course-descriptions/soci/). The three core courses all feature the Academic Community Engagement (ACE) pedagogy giving students opportunities to apply knowledge and skills to meet community needs and gain professional experience. Three elective courses round out the minor providing students an interdisciplinary perspective on community leadership

Code	Title	Hours
Minor in Community Leadership		
Required Courses		
COMS 3370	Intercultural Communication	3
SOCI 3305	Introduction to Community Leadership	3
SOCI 4379	Internship In Applied Sociolgy	3
Prescribed Electives		
Choose three elective courses from the following:		9
AGRI 4388	Principles of Agriculture Leadership & Community Development	
BIOL 1401	Environmental Science	
BUAD 3336	Successful Workplace Relations	
BUAD 4335	Intercultural Business Communication	
COMS 3383	Small Group Communication	
COMS 3385	Community Applied Communication	
CRIJ 4330	Law And Society	
CRIJ 4365	Professionalism and Ethics In Criminal Justice	

DANC 4384	Dance Pedagogy
HLTH 3350	Principles of Public Health
HLTH 4387	Community Health
MCOM 1332	Writing For Mass Media
MCPA 3381	Principles Of Public Relations
PHIL 2306	Contemporary Moral Issues
POLS 3339	Nonprofit Organizations
POLS 3393	Social Policy
POLS 4372	Political Attitudes & Behavior
SOCI 2319	Introduction To Ethnic Studies
SOCI 3324	Social Inequality
SOCI 3376	Rural And Urban Sociology
THEA 4387	Workshop Childrens Creative Drama
Total Hours	**18**

Minor in Cultural Competency

The Minor in Cultural Competency offers students an interdisciplinary understanding of the pluralistic workplaces and communities of today. By minoring in cultural competency, students gain knowledge, skills, and perspectives essential to full participation in civic life, career development, and the promotion of a just society. Students will develop a broad awareness of the institutional, interpersonal, and psychological dimensions of society and will be equipped to be champions for underserved groups. The minor empowers students to be leaders in both public and private sectors, and it complements any major or profession.

Code	Title	Hours
Minor in Cultural Competency		
Required Courses		
SOCI 1301	Introduction to Sociology	3
or SOCI 2319	Introduction To Ethnic Studies	
SOCI 3324	Social Inequality	3
Prescribed Electives		
Select four elective courses from the following:		12
COMS 3370	Intercultural Communication	
COMS 4386	Family Communication	
HSTY 3396	Gender and Sexualities	
HSTY 3375	Social Gospel to Mega Church	
HSTY 3387	American Immigration	
LALS 3350	Spanish/English Cross-Cultural Communication	
PHIL 3367	Philosophy of Religion	
PHIL 4375	Feminist Philosophies	
PHIL 4377	Philosophy of Race	
POLS 3335	Political Ethnic Minorities and Gender	
PSYC 3334	Human Sexuality	
PSYC 4374	Psychology of the Elderly	
SOCI 3325	Gender And Inequality	
SOCI 3341	Marriage And The Family	
SOCI 3354	Sociology of the Life Course	
SOCI 3355	Racial and Ethnic Inequality	
SOCI 4330	Sociology of Immigration	
Total Hours		**18**

Minor in Sociology

A Minor in Sociology is an excellent complement for students intending careers in health-related fields, the non-profit sector, government, higher education, human resource management, social services, and business. The Minor in Sociology provides students with instruction in core sociological concepts and methods. In addition, the minor equips students with conceptual and methodological skills as well as sociological knowledge in areas of their choosing. The Minor in Sociology requires a total of 18 hours in Sociology and should be distributed as follows:

Code	Title	Hours
Minor in Sociology		
Required Courses		
SOCI 1301	Introduction to Sociology	3
or SOCI 2319	Introduction To Ethnic Studies	
SOCI 3370	Research Methods in Sociology	3
SOCI 4344	Sociological Theory	3
Choose 3 elective courses from the sociology minor electives		9
Total Hours		**18**

Code	Title	Hours
Sociology Minor Electives		
SOCI 2399	Writing in Sociology	3
SOCI 3305	Introduction to Community Leadership	3
SOCI 3324	Social Inequality	3
SOCI 3325	Gender And Inequality	3
SOCI 3327	Sociology of Popular Culture	3
SOCI 3335	Food and Society	3
SOCI 3341	Marriage And The Family	3
SOCI 3344	Sociology of Education	3
SOCI 3345	Social Statistics	3
SOCI 3354	Sociology of the Life Course	3
SOCI 3355	Racial and Ethnic Inequality	3
SOCI 3365	Sociology Of Health & Illness	3
SOCI 3371	Qualitative Methods	3
SOCI 3372	Demographic Techniques	3
SOCI 3373	Social Program Evaluation	3
SOCI 3376	Rural And Urban Sociology	3
SOCI 3377	Community Planning and Development	3
SOCI 3381	Cultural Anthropology	3
SOCI 3383	Sociology of Latin America	3
SOCI 3384	Economy And Society	3
SOCI 3392	Social Movements	3
SOCI 4330	Sociology of Immigration	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4337	Environment And Society	3
SOCI 4339	Development & Sustainability	3

Department of World Languages and Cultures

Chair: Dr. Maria Barker (mhb015@shsu.edu) (936) 294-1442

Information: (936) 294-1447; (936) 294-1441; ABIV 431; worldlanguages@shsu.edu

Website: Department of World Languages & Cultures (https://www.shsu.edu/academics/foreign-languages/)

The Department of World Languages & Cultures (WOLC) at SHSU is a multilingual department engaged in researching and teaching a host of world languages.

Mission

The Department of World Languages and Cultures (WOLC) offers a wide array of language and culture courses in Arabic/Middle Eastern Studies, American Sign Language, French, German, and Spanish. Our students become leaders, professionals and innovators in community, national and international organizations, and in professions of law, education, and business, and more. Through our commitment to a better understanding of world cultures and languages, we proudly sponsor the Arnaud and Edwards as well as the Mozelle Powell endowment scholarships that have enabled our students to pursue the study of world languages both on the SHSU campus and abroad.

The department's dedicated faculty conduct cutting-edge scholarship in languages, cultures and literatures as they intersect globally-engaged issues of multilingualism and multiculturalism. Our faculty have published numerous books and research articles in these areas and beyond. With rigor we devote ourselves to understanding the cultural impact and transformative potential of languages and cultures in a global community.

Highlights

We are invested in innovative inquiry in fields that intersect and complement languages and cultures such as Art, Literature, Cultural Studies, Film, Media, Legal Studies, Applied Linguistics and Translation Studies. At the forefront of innovative pedagogy and scholarly inquiry, WOLC offers courses at all levels of undergraduate and the MA at the graduate level in a variety of flexible and convenient formats to enable in-depth understanding of languages, literatures and cultures.

Our signature study abroad programs in Costa Rica, France, and Germany are led by our own faculty, and we assist students with enrollments in other host countries. The Department of World Languages and Cultures organizes campus wide events, performances, lectures, and discussions on a host of topics to increase our understanding of multilingual global communities.

Suggested Minors

WOLC offers a wide range of language, culture, and professional courses for minors in Business; Communication Studies; Criminal Justice; Elementary and Secondary Education; Health; Mass Communication; and Political Science. Minors in other fields will also develop essential critical thinking and intercultural communication skills through language and culture study.

Career Opportunities

Studying language(s) and culture(s) provides valuable training for students pursuing careers in a variety of fields, including business, criminal justice and law, education, healthcare, political and public administration, publishing and media industries, and social work, among many others. These expanding career fields seek students with a solid and critical interpretation of multicultural and multilingual communities. Studying language and culture equips students with crucial skills for lifelong learning and professional development. In an increasingly global market, we prepare our students for a bright future in the professional world and in graduate work.

- Bachelor of Arts, Major in French (p. 858)
- Bachelor of Arts, Major in Spanish (p. 859)
- Bachelor of Arts, Double Major in Education and Spanish (p. 595)
- Minor in American Sign Language (p. 862)
- Minor in French (p. 862)
- Minor in German (p. 863)
- Minor in Latin American and Latinx Studies (p. 863)
- Minor in Middle Eastern Studies (p. 864)
- Minor in Spanish (p. 865)
- Minor in Spanish Interpretation and Translation for Health Professions (p. 865)

Student Organizations and Activities

The World Languages and Cultures Department sponsors many student organizations and activities that enhance Sam Houston State University's multilingual and multicultural communities. Visit World Languages and Cultures (https://www.shsu.edu/academics/world-languages-cultures/) for more information.

Study in America/Abroad

WOLC offers faculty-led or affiliated summer study away programs. These intensive courses are designed to improve students' linguistic and cultural competence and offer a fantastic chance to experience the cultures of the world in conjunction with courses of study at SHSU.

Students can complete basic/intermediate courses or major/minor courses, or simply use the study away experience to improve language skills and cultural competency. Visit the Global Engagement Center (https://www.shsu.edu/dept/global-engagement/) for more information about study away.

Scholarships

Scholarships: Students in languages may apply for the Foreign Languages Scholarship, for the Mozelle Powell Spanish Scholarship, the Seola Arnaud & R.V. Edwards, Jr. Endowed French Scholarship, or the Dr. Mary E. Gutermuth Endowed Scholarship. For more information, apply online at Scholarships4Kats, contact the Department of World Languages and Cultures office, or visit us online at World Languages and Cultures (https://www.shsu.edu/academics/world-languages-cultures/).

Director/Chair: **Maria Hasler Barker**

Miriam Ama Bima Akoto, PHD (maa126@shsu.edu), *Assistant Professor of French*, *Department of World Languages & Cultures*, PHD, East Texas A&M; MA, Univ of Arizona; BA, Kwame Nkrumah University

Maria Hasler Barker, PHD (mhb015@shsu.edu), *Associate Professor of Spanish, Chair of World Languages & Cultures*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Brigham Young University

Arlinda Suzanna Boland, MA (asb101@shsu.edu), *Lecturer of American Sign Language*, *Department of World Languages & Cultures*, MA, Gallaudet University; MS, Gallaudet University; MA, Univ of Bristol; BA, Gallaudet University

Silke Bugge, MA (sbugge@shsu.edu), *Lecturer of World Languages and Cultures*, *Department of World Languages & Cultures*, MA, Humboldt University of Berlin; BSED, Humboldt University of Berlin

Maria M Feu Lopez, PHD (mmf017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Hood College; BA, Universidad de Barcelona

Jamile Marmitt Forcelini, PHD (forcelini@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Florida State University; MA, Florida State University; BA, University of Passo Fundo

Leif M French, PHD (lmf027@shsu.edu), *Adjunct Faculty, Sr. Associate Dean, CHSS*, *Department of World Languages & Cultures*, PHD, Universite Laval; MA, Universite Laval; BA, California St Un-Sacramento

Vianey Gutierrez, MA (vxg017@shsu.edu), *Senior Lecturer of Spanish*, *Department of World Languages & Cultures*, MA, Sam Houston State University; BBA, Institute of Tech of Chihuahua

Tracy Rouly Knight, EDD (trk033@shsu.edu), *Associate Professor of American Sign Language*, *Department of World Languages & Cultures*, EDD, Lamar University; MS, Lamar University; BA, Gallaudet University

Enrique Mallen, PHD (edm012@shsu.edu), *Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Cornell University; MA, Cornell University; MA, Universidad de Sevilla

Julio Cesar Medina Lopez, MA (jcm048@shsu.edu), *Senior Lecturer of Spanish*, *Department of World Languages & Cultures*, MA, Sam Houston State University; LICEN, Universidad Contemporanea

Rebecca Myers, MED (rmp037@shsu.edu), *Lecturer of Spanish*, *Department of World Languages & Cultures*, MED, Sam Houston State University; BS, Utah State University

Sujey C Myers, MA (scm025@shsu.edu), *Senior Lecturer of Spanish*, *Department of World Languages & Cultures*, MA, Sam Houston State University; BA, Sam Houston State University

Christopher John Orta, MS (cjo023@shsu.edu), *Lecturer of American Sign Language*, *Department of World Languages & Cultures*, MS, Lamar University; BA, Univ of Houston-Main

Lillie Vivian Ka Padilla, PHD (lvp005@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Arizona State University; MA, Arizona State University; BA, University of Ghana; BA, University of Ghana

Ama Ayehbea Sewordor, MA (aas178@shsu.edu), *Lecturer of French*, *Department of World Languages & Cultures*, MA, Univ of Arizona; BA, University of Ghana; BA, University of Ghana

Manuel Triano-Lopez, PHD (mxt017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Universidad de Sevilla

Rosti Frank Vana, PHD (rosti.vana@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Arizona State University; MA, Arizona State University; BA, Univ of Calif-Riverside; BA, Univ of Calif-Riverside

Edna Viviana Velasquez, PHD (evv003@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main

Tabitha M Venable, MA (tmv015@shsu.edu), *Lecturer of American Sign Language*, *Department of World Languages & Cultures*, MA, Gallaudet University; BA, Gallaudet University

Samar M Zahrawi, PHD (sxz015@shsu.edu), *Associate Professor of Arabic*, *Department of World Languages & Cultures*, PHD, University of Leeds; BA, Al-Ba'ath University

Bachelor of Arts, Major in French

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-french/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts in French		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [1]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major: Foundation		
FREN 1411	Elementary French	4
FREN 1412	Elementary French	4
FREN 2311	Intermediate French I [1]	3
FREN 2312	Intermediate French II	3
Major: Prescribed Electives		
FREN Advanced Electives [2]		39
Minor: Required [3]		
Minor		18
Electives: General		**7**
General Electives		
Total Hours		**120**

1 If FREN 2311 is used to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), then additional hours will be needed to meet the 120-hour degree requirement.

2 WOLC 4363 may also be counted as an advanced course.

3 The following minor cannot be paired with this degree program: Minor in French.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-french/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	ENGL 1302[1]	3
ENGL 1301[1]	3	FREN 1412	4
FREN 1411	4	HSTY 1302[2]	3
HSTY 1301[2]	3		
	14		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	FREN 2312	3
Component Area IV (p. 89)	3	General Electives	7
FREN 2311[3]	3	POLS 2306[4]	3
POLS 2305[4]	3		
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	FREN Advanced Electives[5]	9
FREN Advanced Electives[5]	6	Minor [6]	6
Minor [6]	6		
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
FREN Advanced Electives[5]	12	FREN Advanced Electives[5]	12
Minor [6]	3	Minor[6]	3
	15		**15**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
4 If FREN 2311 is used to satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), then additional hours will be needed to meet the 120-hour degree requirement.
5 WOLC 4363 may also be counted as an advanced course.
6 The following minor cannot be paired with this degree program: Minor in French.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in French is designed to provide graduates with the following marketable skills:

- Assess best cultural and language practices and competences to engage with others in professional, academic, and social contexts.
- Engage in pluricultural identities, mediate among cultures, and navigate cultural differences.
- Evaluate assumptions, concepts, language and culture to develop feasible solutions based on analysis and interpretation of results.
- Apply knowledge and skills to implement sophisticated, appropriate, and workable solutions to address complex problems using multilingual and multicultural perspectives.
- Adapt and apply a deep understanding of multiple world views, experiences, and power structures while initiating meaningful cross-cultural interaction to address significant global questions.

Bachelor of Arts, Major in Spanish

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-spanish/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts - Major in Spanish		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [2]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
PHIL Course		3
Fine Arts Course [2]		3
HIST or GEOG [3]		3
Major: Foundation		
SPAN 1411	Elementary Spanish I	4
SPAN 1412	Elementary Spanish II	4
SPAN 2311	Intermediate Spanish I [4]	3
SPAN 2312	Intermediate Spanish II [5]	3
Major: Prescribed Electives		
SPAN 3361	Spanish Grammar & Composition	3
SPAN Advanced Electives [6]		34
Minor: Required [7]		
Minor		18
Total Hours		**120**

1. MATH 1332 is recommended.
2. Course cannot double dip with core curriculum.
3. Related to major/with department approval.
4. If course satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), additional hours to reach 120 may be needed.
5. SPAN 2350 may be counted for SPAN 2312.
6. WOLC 4363 may also be counted as an advanced course.
7. The following minors cannot be paired with this degree program: Spanish Minor and Spanish Interpretation and Translation for Health Professionals Minor.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

A grade of C or higher in all SPAN courses is required.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-arts-in-spanish/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	Component Area IX (p. 91)	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HSTY 1301[3]	3	HSTY 1302[3]	3
SPAN 1411	4	SPAN 1412	4
	14		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	PHIL course	3
Fine Arts[4]	3	POLS 2306[5]	3
POLS 2305[5]	3	SPAN 2312[7]	3
SPAN 2311[6]	3	Minor[8]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	HIST or GEOG Course[10]	3
Minor[7]	6	Minor[8]	3
SPAN Advanced Electives[9]	6	SPAN Advanced Electives[9]	7
	15		**13**

Fourth Year

Fall	Hours	Spring	Hours
Minor[8]	3	Minor [8]	3
SPAN 3361	3	SPAN Advanced Electives[9]	12
SPAN Advanced Electives [9]	9		
	15		**15**

Total Hours: 120

1 MATH 1332 is recommended.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Course cannot double dip with core curriculum.
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 If course satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), additional hours to reach 120 may be needed.
7 SPAN 2350 may be counted for SPAN 2312.
8 The following minors cannot be paired with this degree program: Spanish Minor and Spanish Interpretation and Translation for Health Professionals Minor.
9 WOLC 4363 may also be counted as an advanced course.
10 Related to major with departmental approval.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

A grade of C or higher in all SPAN courses is required.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Spanish is designed to provide graduates with the following marketable skills:

- Assess best cultural and language practices, and competences to engage with others in professional, academic, and social contexts.
- Engage in pluricultural identities, mediate among cultures, and navigate cultural differences.
- Evaluate assumptions, concepts, language and culture to develop feasible solutions based on analysis and interpretation of results.
- Apply knowledge and skills to implement sophisticated, appropriate, and workable solutions to address complex problems using multilingual and multicultural perspectives.
- Adapt and apply a deep understanding of multiple world views, experiences, and power structures while initiating meaningful *c*ross-cultural interaction to address significant global questions.

Minor in American Sign Language

A minor in American Sign Language requires a total of 23 hours of coursework. These include:

Code	Title	Hours
Minor in American Sign Language		
SGNL 1401	Elementary American Sign Language I	4
SGNL 1402	Elementary American Sign Language II	4
SGNL 2311	Intermediate American Sign Language I	3
SGNL 2312	Intermediate American Sign Language II	3
Advanced courses in DSSL or SGNL or WOLC (six hours of which must be taken in residence.)		9
Total Hours		**23**

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411 (or 1401), 1412 (or 1402), 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads "12-14 hours" to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the SHSU Testing Center (https://www.shsu.edu/centers/testing-center/).

Minor in French

A minor in French requires a total of 23 hours of coursework. These include:

Code	Title	Hours
Minor in French		
FREN 1411	Elementary French	4
FREN 1412	Elementary French	4
FREN 2311	Intermediate French I	3
FREN 2312	Intermediate French II	3
Advanced FREN courses (six hours of which must be taken in residence.) [1]		9
Total Hours		**23**

[1] WOLC 4363 may also be counted as an advanced course for the minor.

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411 (or 1401), 1412 (or 1402), 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads "12-14 hours" to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the SHSU Testing Center (https://www.shsu.edu/centers/testing-center/).

Minor in German

Code	Title	Hours
Minor in German		
GERM 1411	Elementary German	4
GERM 1412	Elementary German	4
GERM 2311	Intermediate German I	3
GERM 2312	Intermediate German II	3
Advanced GERM courses (six hours of which must be taken in residence.) [1]		9
Total Hours		**23**

[1] WOLC 4363 may also be counted as an advanced course for the minor.

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411 (or 1401), 1412 (or 1402), 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads "12-14 hours" to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the SHSU Testing Center (https://www.shsu.edu/centers/testing-center/).

Minor in Latin American and Latinx Studies

Students pursuing a Minor in Latin American and Latinx Studies will complete 18 semester credit hours from a wide array of elective courses designated below. Latin American and Latinx Studies (LALS) courses will be taught in English; Spanish (SPAN) may be conducted in English or Spanish.

Code	Title	Hours
Minor in Latin American and Latinx Studies		
Required Courses		
LALS 2311	Introduction to Latin American and Latinx Studies	3
LALS 2321	Latin American and Latinx Literature and Culture	3
LALS 2331	Latin American and Latinx Linguistics and Culture	3
Electives		
Select three of the following:		9
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia	
HSTY 3352	Colonial Latin America	
LALS 3340	Latin American and Latinx Gender Studies	
LALS 3350	Spanish/English Cross-Cultural Communication	
POLS 3387	Latin American Politics	
SOCI 2319	Introduction To Ethnic Studies	
SOCI 3324	Social Inequality	
SOCI 3383	Sociology of Latin America	

SPAN 2350	Spanish for Heritage Speakers
SPAN 3380	Spanish Culture & Civilization
SPAN 3385	Spanish American Culture and Civilization
SPAN 4365	Pablo Picasso & Spanish Art
SPAN 4370	Seminar in Selected Topics Literacy, Language, and Civilization
SPAN 4371	Spanish for Criminal Justice
SPAN 4372	Spanish for Business
SPAN 4373	Spanish for Mass Communication
SPAN 4374	Spanish for Health Professions
Total Hours	**18**

Minor in Middle Eastern Studies

The Middle Eastern Studies minor includes a track A (Arabic language) and a track B (non-language).

Code	Title	Hours
Minor in Middle Eastern Studies		
Track A		
Required Courses		
ARAB 1412	Elementary Arabic II	
ARAB 2311	Intermediate Arabic I	
ARAB 2312	Intermediate Arabic II	
ARAB 3380	The Contemporary Arab World	
Prescribed Electives		
Select two of the following:		6
HSTY 3315	Middle East to 1600	
HSTY 3316	Modern Middle East	
POLS 3375	Politics of The Middle East	
SOCI 4339	Development & Sustainability	
WOLC 4363	Language Learning: Concepts & Methods	
Total Hours		**6**

Code	Title	Hours
Minor in Middle Eastern Studies		
Track B		
Required Courses		**12**
ARAB 3380	The Contemporary Arab World	
HSTY 3315	Middle East to 1600	
HSTY 3316	Modern Middle East	
POLS 3375	Politics of The Middle East	
Prescribed Electives		
Select two of the following:		6
ARAB 4075	Individual Readings in Arabic	
HIST 3075	Independent Study	
POLS 4081	Problems in Political Science	
SOCI 4339	Development & Sustainability	
WOLC 4363	Language Learning: Concepts & Methods	
Total Hours		**18**

Students may take ARAB 4075, or HIST 3075 or POLS 4081 more than once for credit toward the minor if the topics are different. Topics in these courses must be on the Middle East. In addition, ARAB 1411, ARAB 1412, ARAB 2311, or ARAB 2312 may be substituted for any six hours in block 2 classes of Track B.

Minor in Spanish

A minor in Spanish requires a total of 23 hours of coursework. These include:

Code	Title	Hours
Minor in Spanish [1]		
SPAN 1411	Elementary Spanish I	4
SPAN 1412	Elementary Spanish II	4
SPAN 2311	Intermediate Spanish I	3
SPAN 2312	Intermediate Spanish II [2]	3
Advanced SPAN courses (six hours of which must be taken in residence.) [3]		9
Total Hours		**23**

1 Minor in Spanish cannot be paired with Minor in Spanish Interpretation and Translation for Health Professions.
2 SPAN 2350 may count for SPAN 2312.
3 WOLC 4363 may also be counted as an advanced course for the minor.

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411 (or 1401), 1412 (or 1402), 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads "12-14 hours" to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the SHSU Testing Center (https://www.shsu.edu/centers/testing-center/).

Minor in Spanish Interpretation and Translation for Health Professions

Code	Title	Hours
Minor in Spanish Interpretation and Translation for Health Professions [1]		
Required Courses		
SPAN 3330	Principles of Health Care Interpretation	3
SPAN 3340	Principles of Health Care Translation	3
SPAN 3361	Spanish Grammar & Composition	3
SPAN 4051	Applied Health Care Interpretation and Translation	3
SPAN 4374	Spanish for Health Professions	3
SPAN or LALS or WOLC 3000 or 4000 level course		3
WOLC 3010	Applied Language Practicum	3
Total Hours		**21**

Notes:

Students must have permission from the Chair of the Department of World Languages and Cultures to enroll in minor courses.

Students must have ACTFL Oral Proficiency Interview-Computer rating of Advanced Low or equivalent to enroll in minor courses.

1 Minor in Spanish Interpretation and Translation for Health Professions cannot be paired with Minor in Spanish.

College of Science and Engineering Technology

Administrative Officers

Title/Department	Officer
Dean	Melinda Holt, Ph.D. coset@shsu.edu
Associate Dean for Curriculum & Assessment	Dustin Jones, Ph.D. dljones@shsu.edu; (936) 294-1945
Associate Dean for Graduate Programs & Research	Li-Jen Lester, Ed.D. lys001@shsu.edu; (936) 294-1326
School of Agricultural Sciences	Mark Anderson, Ph.D., Chair mjanderson@shsu.edu; (936) 294-3367
Department of Biological Sciences	Aaron Lynne, Ph.D., Chair aaronlynne@shsu.edu; (936) 294-1544
Department of Chemistry	Donovan C. Haines, Ph.D., Chair dch009@shsu.edu; (936) 294-1530
Department of Computer Science	Bing Zhou, Ph.D., Chair bxz003@shsu.edu; (936) 294-1590
Department of Engineering Technology	Faruk Yildiz, Ph.D., Chair fxy001@shsu.edu; (936) 294-3774
Department of Environmental and Geosciences	Joseph Hill, Ph.D., Chair geojoe@shsu.edu; (936) 294-1560
Department of Mathematics and Statistics	Damon Hay, Ph.D., Chair dmh035@shsu.edu; (936) 294-4859
Department of Physics and Astronomy	Joel W. Walker, Ph.D., Chair jwalker@shsu.edu; (936) 294-4803

About the College

The College of Science and Engineering Technology at Sam Houston State University welcomes you! Why consider pursuing a degree from this College? Here are just a few reasons:

- You can choose from a wide variety of programs in the fields of agriculture, animal science, biology, biomedical sciences, chemistry, computer science, construction management, cybersecurity, data science, engineering technology, forensic chemistry, geography, geology, mathematics, physics, plant and soil science, software engineering, and statistics.
- Our programs will prepare you for careers in exciting and rapidly evolving fields that advance society.
- You will learn from professors who love to teach and draw from their personal and professional experience as practitioners in their areas of expertise.

We invite you to take a closer look at the programs that spark your interest. All will connect you with the innovative thinking, mentoring, leadership, and academic challenges that are hallmarks of an SHSU education.

Mission

The College of Science and Engineering Technology (COSET) offers quality undergraduate, graduate, and professional-level STEM education that is flexible, student-centered, innovative, and engaged with the community. COSET fosters student-faculty relationships focused on career readiness, research opportunities, and professional and personal development.

Vision

The College of Science and Engineering Technology (COSET) prepares a diverse population of STEM leaders to enrich their communities and professions and solve critical STEM challenges facing our world.

Highlights

The College of Science and Engineering Technology:

- Offers small classes and experiential learning opportunities in state-of-the-art facilities, including Gibbs Ranch, Pineywoods Environmental Research Laboratory, Dominey Observatory, Sam Houston State Natural History Collections, Sam Houston State University Microscopy Center, and the Harrell Agricultural Engineering Technology Center;
- Provides unique place-based learning and workforce-based courses taught by nationally and internationally recognized faculty;

- Provides student research opportunities funded by the National Science Foundation, U.S. Department of Defense, the U.S. Department of Agriculture, and more;
- Maintains ABET accredited programs in Computer Science and Engineering Technology, assuring graduates are prepared to enter the global workforce;
- Houses the Sam Houston State University Center of Excellence in Digital Forensics; and
- Offers learning and professional development support through a variety of programs in the College of Science and Engineering Technology STEM Center.

College of Science and Engineering Technology Undergraduate Degrees

Major	Degree(s)
School of Agricultural Sciences	
Agricultural Business	B.S.
Agricultural Business: Ranch Management Concentration	B.S.
Agricultural Engineering Technology	B.S.
Animal Science	B.S.
Animal Science: Animal Care and Welfare Concentration	B.S.
Animal Science (Pre-Veterinary)	B.S.
Animal Science with Minor in Conservation Biology	B.S.
Animal Science with Minor in Wildlife Management	B.S.
Career and Technology Program	B.A.A.S.
Interdisciplinary Agriculture	B.S.
Interdisciplinary Agriculture, Agricultural Industries Concentration	B.S.
Plant and Soil Sciences	B.S.
Department of Biological Sciences	
Biology	B.A., B.S.
Biomedical Sciences	B.S.
Department of Chemistry	
Chemistry: Biochemistry and Medicine Concentration	B.S.
Chemistry: Forensic Science Concentration	B.S.
Chemistry (Other Technical Careers)	B.S.
Chemistry (Professional Chemist)	B.S.
Forensic Chemistry	B.S.
Department of Computer Science	
Computing Science	B.S.
Computing Science: Information Assurance Concentration	B.S.
Computing Science: Information Science Concentration	B.S.
Cybersecurity	B.S.
Software Engineering	B.S.
Department of Engineering Technology	
Construction Management	B.S.
Electronics and Computer Engineering Technology	B.S.
Engineering Design Technology	B.S.
Engineering Technology	B.S.
Engineering Technology: Architectural Design Technology Concentration	B.S.
Engineering Technology: Biomedical Engineering Technology Concentration	B.S.
Engineering Technology: Electronics Concentration	B.S.
Engineering Technology: Environmental, Health, and Safety Management Concentration	B.S.
Engineering Technology: Manufacturing Engineering Technology Concentration	B.S.
Mechanical Engineering Technology	B.S.
Department of Environmental and Geosciences	
Environmental Science: Pollution Abatement Concentration	B.S.

Environmental Science: Sustainability Concentration	B.S.
Environmental Science: Water Resources Concentration	B.S.
Geography: Environmental Geography Concentration	B.A., B.S.
Geography: Geospatial Information Sciences Concentration	B.S.
Geography: Human Geography Concentration	B.A., B.S.
Geology	B.S.
Geology: Geoscience Concentration	B.S.
Department of Mathematics and Statistics	
Data Science	B.S.
Mathematics	B.A., B.S.
Mathematics: 4+1 MS, Mathematics	B.S.
Department of Physics and Astronomy	
Physics	B.S.
Physics: Civil Engineering 2+2	B.S.
Physics: Electrical Engineering 2+2	B.S.
Physics: Mechanical Engineering 2+2	B.S.
Physics/Engineering (Dual Degree)	B.S.

Undergraduate Certificates

Departments	Programs
Engineering Technology	Occupational Health and Safety Technology
Environmental and Geosciences	Crime Analysis and Mapping
Environmental and Geosciences	Geospatial Applications

School of Agricultural Sciences

Chair: Dr. Mark J Anderson (mjanderson@shsu.edu) (936) 294-3367

Website: School of Agricultural Sciences (https://www.shsu.edu/academics/agriculture/)

The School of Agricultural Sciences consists of major programs of study in:

- Agricultural Sciences
  - Bachelor of Science degrees in:
    - Agricultural Business
    - Agricultural Engineering Technology
    - Animal Science
    - Interdisciplinary Agriculture
    - Plant and Soil Sciences
    - The teaching option in Agricultural Education (AFNR) is available for all majors
  - Master of Agriculture in Sustainable Agriculture, Food and Environment
  - Master of Science in Agriculture
- Career and Technology Education - Bachelors of Applied Arts and Sciences Program [BAAS]

A number of specialized programs or majors, offer students the opportunity to tailor degree programs with career goals. Specific requirements for each degree are outlined under the respective program headings. For more information, please visit the School Agricultural Sciences (https://www.shsu.edu/academics/agriculture/), or contact Dr. Mark J Anderson (mjanderson@shsu.edu).

Highlights

The School of Agricultural Sciences has multiple educational centers and complexes

- The Fred L. Pirkle Engineering Technology Center has many specialized classrooms and laboratories that service the agriculture program: Agricultural Education, Agricultural Communications, Agribusiness Team Based Learning, Animal Science Physiology, Floral Design, and Wildlife Management.
- The Agriculture Center Complex houses the meat science laboratory.
- The Plant Science Field Lab has two greenhouses and laboratory facilities for plant science and plant propagation.
- The William R. Harrell Agricultural Engineering Technology Center provides students with hands-on experience in wood and metal fabrication, electricity and electronics, hydraulics, structures, alternative energy resources, and soil and water conservation.
- The 1620+ acre Gibbs Ranch Education and Research Facility, located north of campus on Highway 75, serves as a living laboratory for all aspects of agricultural and natural resource education.
- The Gibbs Ranch Expansion will have three phases. Phase I was completed in Fall 2023 and included a new Plant & Soil Sciences head house, two modern greenhouses, a learning center, and a covered multi-purpose arena with an attached stall barn. Phase 2 is currently underway and will include a new equestrian center and meats/food technology laboratory.

Career Opportunities

Approximately twenty percent of the U.S. population is involved in occupations directly related to agriculture. Sectors such as production, banking, marketing, teaching, processing, and service in governmental agencies rely on the productivity of modern agriculture in meeting the daily needs of society.

Additional career information is given in the introduction to each of the degree programs in agriculture.

Suggested Minors

Numerous minors within and outside the School of Agricultural Sciences are available:

- Students seeking secondary teacher certification in agricultural science must select the Teacher Certification track. The most common major used for this purpose is Interdisciplinary Agriculture, but Teacher Certification may be used by Agricultural Business, Agricultural Engineering Technology, Animal Science, or Plant and Soil Science majors.
- Many Agricultural Business, Animal Science, Agricultural Engineering Technology, and Plant & Soil Sciences majors will select minors from program areas within the School of Agricultural Sciences (see Minor area), while others will select from the wide array of minors from various colleges.
- Agricultural Business majors have an additional option of selecting a concentration in Ranch Management in place of a minor.
- Animal Science majors frequently select a minor in Agricultural Business, Wildlife Management, Equine Science, Plant and Soil Science, or Agricultural Education Teacher Certification.

- Animal Science majors have an additional option of selecting a concentration in Pre-Veterinary or Animal Care and Welfare in place of a minor.
- Biology or Chemistry is frequently taken as a minor by Animal Science and Plant & Soil Sciences students considering graduate school.
- Agricultural Engineering Technology majors often select a minor in Agricultural Business, General Business Administration, Plant and Soil Science, Construction Management or Agricultural Education Teacher Certification.
- Agricultural Engineering Technology majors have an additional option of selecting a concentration in Power and Machinery Management.
- Interdisciplinary Agriculture majors must select Teacher Certification or a minor from outside of the School of Agricultural Sciences.

Program-Specific Requirements

The **objectives** of the Agricultural Sciences Program are to:

- Provide high quality instruction in agricultural sciences, technology, and business;
- Promote research in agricultural sciences;
- Provide a program of continuing education for teachers of agricultural science and agricultural producers; and
- Provide educational and competitive activities for youth interested in the agricultural sciences.

For additional information regarding admission requirements, degree programs, description of courses, and financial assistance available, please refer to the appropriate sections of this catalog. Brochures and information concerning the department and scholarships may be obtained by calling (936) 294-1215 or writing:

Sam Houston State University
School of Agricultural Sciences
Huntsville, Texas 77341-2088

or by e-mailing a request to Dr. Mark J Anderson. (mjanderson@shsu.edu) Website: School of Agricultural Sciences (https://www.shsu.edu/academics/agriculture/) (http://www.shsu.edu/academics/agricultural-sciences/)

- Bachelor of Science, Major in Agricultural Business (p. 874)
- Bachelor of Science, Major in Agricultural Business with Ranch Management Concentration (p. 877)
- Bachelor of Science, Major in Agricultural Business with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-business-with-teaching-certification/)
- Bachelor of Science, Major in Agricultural Engineering Technology (p. 884)
- Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-engineering-with-teaching-certification/)
- Bachelor of Science, Major in Animal Science (p. 891)
- Bachelor of Science, Major in Animal Science, Animal Care and Welfare Concentration (p. 894)
- Bachelor of Science, Major in Animal Science with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-animal-science-with-teaching-certification/)
- Bachelor of Science, Animal Science, Minor in Conservation Biology (p. 900)
- Bachelor of Science, Animal Science, Minor in Wildlife Management (p. 903)
- Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine (p. 905)
- Bachelor of Science, Major in Interdisciplinary Agriculture (p. 908)
- Bachelor of Science, Major in Interdisciplinary Agriculture, Agricultural Industries Concentration (p. 911)
- Bachelor of Science, Double Major in Education and Interdisciplinary Agriculture (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-interdisciplinary-agriculture/)
- Bachelor of Science, Major in Plant and Soil Sciences (p. 915)
- Bachelor of Science, Major in Plant and Soil Sciences with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-plant-soil-sciences-with-teaching-certification/)
- Career and Technology Program Bachelor of Applied Arts and Sciences (p. 925)
- Minor in Agricultural Business (p. 921)
- Minor in Agricultural Engineering Technology (p. 921)
- Minor in Animal Science (p. 922)
- Minor in Equine Science (p. 922)
- Minor in Plant and Soil Sciences (p. 922)
- Minor in Science (p. 923)
- Minor in Wildlife Ecology (p. 924)

Student Organizations

- Ag Ambassadors
- Agricultural Business Association
- Agricultural Communicators of Tomorrow
- Agricultural Engineering Technology Club
- Alpha Gamma Rho Fraternity
- Beef Cattle Show Team
- Block and Bridle
- CattleWomen
- Collegiate FFA
- Collegiate Farm Bureau
- Delta Tau Alpha - National Agricultural Honor Society
- Equestrian Team
- Horse Judging Team
- Horsemen's Association
- Livestock Judging Team
- Minorities in Agriculture, Natural Resources and Related Sciences [MANRRS]
- National Agri-Marketing Association
- National Collegiate Landscape Competition Team
- Plant and Soil Science Club
- Pre-Vet Society
- Ranch Horse Team
- Rodeo Club
- Sigma Alpha – Professional Agricultural Sorority
- Stock Horse Team
- Wildlife Society

Internships

An internship in agricultural sciences is intended to provide experience-based learning opportunities for students in their respective discipline of study. Students generally seek an internship experience at the end of their sophomore or junior year. Internships may be arranged through student contact with providers or through departmental faculty and staff announcements and postings. All internships must receive departmental approval through application prior to the initiation of the internship. Maximum credit for internship is six (6) credit hours.

Scholarships

The School of Agricultural Sciences is pleased to have available approximately 90 scholarships for students majoring in agricultural sciences. Scholarships range in value from $500 per year to $16,000 over a 4-year period. Almost all of these scholarships are a one-time award and are awarded on an annual basis. A student may reapply in subsequent years if eligibility requirements are met. A few of our scholarships are renewed automatically for a period of 4 years if eligibility requirements are met.

The Scholarship4KATS (https://www.shsu.edu/dept/financial-aid/aid/scholarships/) application must be completed to apply for any scholarship awarded through the School of Agricultural Sciences. The program enables you to apply for all scholarships for which you are eligible, including those outside the School of Agricultural Sciences. The Priority Date for scholarships and university-wide scholarships is November 1; other scholarship deadlines vary.

CONTACT:

Dr. Danhong Chen (dxc062@shsu.edu)
School of Agricultural Sciences
PO Box 2088, Huntsville, TX 77341
(936) 294-1214

SHSU Rodeo Scholarships

The scholarships below are available through the Sam Houston Rodeo program. The application deadline is July 1. Rodeo scholarships are one-time awards and not automatically renewable. Many rodeo scholarships are skills and performance based.

Applications are available through the University's Scholarship4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) program.

- Byrd Family and Friends of Rodeo Scholarship
- Judge John McAdams Scholarship
- SHSU Rodeo Team Scholarship
- Joshua Farris Memorial Endowed Scholarship
- Sonny Sikes and the Sikes Family Endowed Rodeo Scholarship
- Russell and Glenda Gordy Endowed Rodeo Scholarship
- Tommy Castenson Memorial Scholarship
- Wes Neyland Memorial Endowed Rodeo Scholarship

CONTACT:

Coach Edward "Bubba" Miller
School of Agricultural Sciences
PO Box 2088, Huntsville, TX 77341
(936) 294-3867; elm014@shsu.edu.

Abbas Aboohamidi, PHD (axa432@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MA, Texas Tech University; BBA, Texas A&M-Corpus Christi

Mark J Anderson, PHD (mjanderson@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Iowa State University; MS, Texas Tech University; BS, Texas Tech University

Brianna Lee Arriola, MA (bla017@shsu.edu), *Lecturer of Practice in Agricultural Sciences*, *Department of Agricultural Sciences*, MA, Texas A&M University; BS, Sam Houston State University

Marcy Miller Beverly, PHD (agr_mmb@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Alisha N Bullion, MS (anb035@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Amber Vonona Chambers, MS (avc015@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Texas A&M University; BS, Univ of Idaho

Danhong Chen, PHD (dxc062@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Penn State Un-Univ Park; PHD, Penn State Un-Univ Park; MA, Southeast University; BA, Nanjing Agicultural University

Kalley Kay Fikes, MS (kkf007@shsu.edu), *Adjunct*, *Department of Agricultural Sciences*, MS, Texas A&M University; BS, Texas A&M University

Richard Kirby Ford, EDD (rkf006@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, EDD, Texas A&M University; MS, Texas A&M-Kingsville; BS, Texas A&M University

Kristie L Franks, MS (stdkxr14@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Mark S Hainline, PHD (msh004@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MS, Texas Tech University; BS, Sam Houston State University

Carly Ann Hoffmann, PHD (cahoffmann@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas Tech University; BS, Texas A&M University

Lonna Ann Marie Holland, MS (lah045@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Kaitlin Ann Hopkins, PHD (kah147@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Stephen F Austin University; BS, Stephen F Austin University

Stanley F. Kelley, PHD (sfkelley@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

James Victor Landrum, PHD (jvl016@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Texas At Austin; MS, Univ of Southern Mississippi; BS, Mississippi State University

Robert Wayne Mcqueen, MS (rwm021@shsu.edu), *Assistant Professor of Practice of Wildlife Management*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Eastern Kentucky University

Michael Copeland Moore, DVM (mcm014@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, DVM, Texas A&M University; BS, Texas A&M University; BS, Univ of Texas Medical Branch

Kristin Leigh Nicholson, PHD (kln017@shsu.edu), *Assistant Professor of Practice of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Timothy R. Pannkuk, PHD (agr_trp@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Brittany Leigh Paris, PHD (blp054@shsu.edu), *Assistant Professor of Animal Science*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Chad Allen Reynolds, PHD (car020@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Missouri-Columbia; MS, Sam Houston State University; BS, Sam Houston State University

Philip Ryan Saucier, MS (ryansaucier@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Shyam Sivankutty Nair, PHD (shyam.nair@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MSC, Kerala Agricultural University; BSC, Kerala Agricultural University

Christopher Ray Stewart, MS (crs003@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Kyle J Stutts, PHD (kjs015@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

James D Sugg, PHD (jds233@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Maureen Victoria, PHD (mxv100@shsu.edu), *Assistant Professor of Practice in Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Univ of Missouri-Columbia; BS, Texas State Univ-San Marcos

Marsha Clark Wilson, MBA (mcw021@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MBA, Univ of Houston-Main; BS, Univ of Texas At Austin

Mary Catherine Brown Wilson, MS (mcb059@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Lawrence Arthur Wolfskill, PHD (wolfskill@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MBA, Texas A&M University; BS, Texas A&M University

Bachelor of Science, Major in Agricultural Business

Agribusiness is a program for students interested in management in agriculture. The agribusiness curriculum prepares students for employment in finance, ranch management, business management, state and federal agencies, risk management, sales and marketing, and many other fields related to business and economics. The program includes courses in farm and ranch management, marketing, natural resources, government policy, budgeting, finance, business organization and management, and other related courses.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-agricultural-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Agricultural Business		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Introduction to Technical Writing	
ECON 2301	Principles Of Macroeconomics [2]	3
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MATH 1342	Elementary Statistics	3
or STAT 3379	Statistical Methods in Practice	
Major: Foundation		
AGRI 1131	Introduction to Professional Leadership Skills	1
AGRI 1309	Computers in Agriculture	3
or MGIS 1305	Business Computer Applications	
or CSTE 1330	Introduction to Computers	
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2385	Analysis of the Agricultural Sector	3
AGBU 2389	Agribusiness Financial Analysis	3
or ACCT 2302	Principles of Managerial Accounting	
AGBU 3361	Agribusiness Organization & Management	3
AGBU 3367	Agricultural Finance	3
AGBU 3385	Quantitative Methods for Agribusiness	3
AGBU 4340	Agribusiness Marketing	3
AGBU 4363	Agricultural Sales & Consulting	3
AGBU 4374	Agricultural Market Analysis & Prices	3
AGBU 4375	Advanced Agribusiness Management	3
AGBU 4386	Agriculture & Food Policy	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major: Prescribed Electives		
Select two courses from the following:		6
AGBU 4319	Agribusiness Ventures	
AGBU 4362	Natural Resource Economics	

AGRI 4364	International Agriculture
AGBU 4365	Legal Issues in Agribusiness
AGBU 4369	Special Topic
AGBU 4377	Economics of Land Use & Planning
AGBU 4378	Farm & Ranch Management

Major: Prescribed Advanced Electives	
Advanced Electives from: ACOM, AGBU, AGED, AGET, AGRI, ANSC, EQSC, PLSC or WMGT	3
Minor: Required [3]	
Minor	9
Minor (Advanced)	9
Total Hours	**120**

1 MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the degree specific requirements.
2 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
3 The following minors cannot be paired with this degree program: Minor in Conservation Biology and Minor in Early Childhood Education.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-agricultural-business/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	AGRI 1309, MGIS 1305, or CSTE 1330	3
AGRI 1131	1	ENGL 1302[1]	3
ANSC 1319 & ANSC 1119	4	ECON 2301[4]	3
ENGL 1301[1]	3	MATH 1342 or STAT 3379	3
HSTY 1301[2]	3	PLSC 1307 & PLSC 1107	4
MATH 1324[3]	3		
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
AGBU 2317	3	Component Area V (p. 90)	3
AGBU 2385	3	AGBU 2389 or ACCT 2302	3
HSTY 1302[2]	3	POLS 2306[5]	3
POLS 2305[5]	3	Minor[6]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area IX (p. 91)	3
AGBU 3361	3	ACOM 3360 or ENGL 3330	3
AGBU 3367	3	AGBU 4340	3
AGBU 3385	3	Major: Prescribed Electives[7]	3
Minor[6]	3	Minor[6]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
AGBU 4374		3 AGBU 4375	3
AGBU 4363		3 AGBU 4386	3
Advanced Electives from: ACOM, AGBU, AGED, AGET, AGRI, ANSC, EQSC, PLSC or WMGT		3 Major: Prescribed Electives[7]	3
Minor Advanced [6]		6 Minor Advanced [6]	3
	15		**12**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
4 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 The following minors cannot be paired with this degree program: Minor in Conservation Biology and Minor in Early Childhood Education.
7 See, Prescribed Electives course list below.

Code	Title	Hours
Major: Prescribed Electives [7]		
AGBU 4319	Agribusiness Ventures	3
AGBU 4362	Natural Resource Economics	3
AGRI 4364	International Agriculture	3
AGBU 4365	Legal Issues in Agribusiness	3
AGBU 4369	Special Topic	3
AGBU 4377	Economics of Land Use & Planning	3
AGBU 4378	Farm & Ranch Management	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Agricultural Business is designed to provide graduates with the following marketable skills:

- Communicate professionally both orally and in writing.
- Build teamwork and collaboration skills.
- Use analytical skills to make data-driven decisions.
- Perform feasibility and risk analyses and apply critical thinking to evaluate business opportunities.
- Execute market research and identify target markets.
- Analyze financial statements to evaluate the financial status of agribusinesses.
- Assess the impact of government policies on agribusinesses.

Bachelor of Science, Major in Agricultural Business with Ranch Management Concentration

Code	Title	Hours
Bachelor of Science, Major in Agricultural Business: Ranch Management Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Introduction to Technical Writing	
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
ECON 2301	Principles Of Macroeconomics [3]	3
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MATH 1342	Elementary Statistics	3
or STAT 3379	Statistical Methods in Practice	
Major: Foundation		
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2385	Analysis of the Agricultural Sector	3
AGBU 2389	Agribusiness Financial Analysis	3
AGBU 3361	Agribusiness Organization & Management	3
AGBU 3367	Agricultural Finance	3
AGBU 3385	Quantitative Methods for Agribusiness	3
AGBU 4340	Agribusiness Marketing	3
AGBU 4363	Agricultural Sales & Consulting	3
AGBU 4374	Agricultural Market Analysis & Prices	3
AGBU 4375	Advanced Agribusiness Management	3
AGRI 1131	Introduction to Professional Leadership Skills [4]	1
AGRI 1309	Computers in Agriculture	3
or CSTE 1330	Introduction to Computers	
or MGIS 1305	Business Computer Applications	
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major: Prescribed Advanced Electives		**6**
Select two courses from the following:		
AGBU 4319	Agribusiness Ventures	
AGBU 4369	Special Topic	
AGBU 4377	Economics of Land Use & Planning	
AGBU 4386	Agriculture & Food Policy	
Major: Prescribed Electives		**3**
Select one from the following:		
ANSC 3336	Livestock Marketing	
ANSC 4376	Sheep & Goat Production & Management	

EQSC 2364	Equine Science	
EQSC 2365	Equine Safety and Handling	
PLSC 4383	Range Management	
Concentration: Ranch Management		
AGBU 4365	Legal Issues in Agribusiness	3
AGBU 4378	Farm & Ranch Management	3
ANSC 3373	Animal Nutrition	3
ANSC 4380	Beef Cattle Production & Management	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
PLSC 4370	Forage Crops and Pasture Management	3
Total Hours		**120**

1 MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.
2 CHEM 1406 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Sciences) and the Degree Specific requirement.
3 ECON 2301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the Degree Specific requirement.
4 UNIV 1101 or UNIV 1301 may be substituted if required by University Admissions or if the student is enrolled in the Ag Cohort.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	AGRI 1309, CSTE 1330, or MGIS 1305	3
AGRI 1131[1]	1	ENGL 1302[2]	3
ANSC 1319 & ANSC 1119	4	HSTY 1302[3]	3
ENGL 1301[2]	3	MATH 1342 or STAT 3379	3
HSTY 1301[3]	3	PLSC 1307 & PLSC 1107	4
MATH 1324[4]	3		
	15		**16**

Second Year

Fall	Hours	Spring	Hours
AGBU 2317	3	Component Area III (p. 89)	4
AGBU 2385	3	Component Area IV (p. 89)	3
CHEM 1406[5]	4	AGBU 2389	3
ECON 2301[6]	3	ANSC 3373	3
POLS 2305[7]	3	POLS 2306[7]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area IX (p. 91)	3
AGBU 3361	3	ACOM 3360 or ENGL 3330	3
AGBU 3367	3	AGBU 4363	3
AGBU 3385	3	AGBU 4378	3
AGBU 4365	3	Major: Prescribed Advanced Electives[8]	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
AGBU 4340		3 AGBU 4375	3
ANSC 4380		3 ANSC 4389	3
PLSC 4370		3 AGBU 4374	3
Major: Prescribed Advanced Electives[8]		3 ANSC 4394	3
Major: Prescribed Electives[9]		3	
		15	**12**

Total Hours: 120

1 UNIV 1101 or UNIV 1301 may be substituted if required by University Admissions or if the student is enrolled in the Ag Cohort.
2 ENGL 1301 and ENGL 1302 satisfy the Core Curriculum requirement for Component Area I (Communications).
3 HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5 CHEM 1406 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
6 ECON 2301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7 POLS 2305 and POLS 2306 satisfy the Core Curriculum requirement for Component Area VII (Political Science/Government).
8 See **Prescribed Advanced Electives** course list below.
9 See **Prescribed Electives** course list below.

Code	Title	Hours
Major: Prescribed Advanced Electives [8]		
AGBU 4319	Agribusiness Ventures	3
AGBU 4369	Special Topic	3
AGBU 4377	Economics of Land Use & Planning	3
AGBU 4386	Agriculture & Food Policy	3

Code	Title	Hours
Major: Prescribed Electives [9]		
ANSC 3336	Livestock Marketing	3
ANSC 4376	Sheep & Goat Production & Management	3
EQSC 2364	Equine Science	3
EQSC 2365	Equine Safety and Handling	3
PLSC 4383	Range Management	3

Notes

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Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

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The BS in Agricultural Business with Ranch Management Concentration is designed to provide graduates with the following marketable skills:

- Communicate professionally both orally and in writing.
- Build teamwork and collaboration skills.
- Use analytical skills to make data-driven decisions related to Ranch Management.
- Perform feasibility and risk analyses and apply critical thinking to evaluate opportunities.
- Execute market research, identify target markets.
- Understand and apply risk management techniques in cattle commodity markets.

- Analyze financial statements to evaluate the financial status of farms and ranches.
- Understand and manage the biological processes necessary for managing cattle operations.

Bachelor of Science, Major in Agricultural Business with Teaching Certification

Code	Title	Hours
Bachelor of Science, Major in Agricultural Business with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Introduction to Technical Writing	
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction to Computers	
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
MATH 1324	Mathematics for Managerial Decision Making [1]	3
MATH 1342	Elementary Statistics	3
Major: Foundation		
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2385	Analysis of the Agricultural Sector	3
AGBU 2389	Agribusiness Financial Analysis	3
AGBU 3361	Agribusiness Organization & Management	3
AGBU 3367	Agricultural Finance	3
AGBU 4340	Agribusiness Marketing	3
AGBU 4363	Agricultural Sales & Consulting	3
AGED 3310	Teaching Agricultural Technology	3
AGED 3320	The Secondary Agriculture Education Program	3
AGED 4388	Secondary Agriculture Education Program Management	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGET 4384	Fusing & Joining of Metals & Non-Metals	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Management Techniques	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 4370	Forage Crops and Pasture Management	3
or PLSC 3395	Plant Propagation Techniques	
Advanced Plant Science Elective		3
Major: Prescribed Electives		
Select one of the following Prescribed Electives:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Management	
ANSC 4380	Beef Cattle Production & Management	
EQSC 2364	Equine Science	
WMGT 2301	Principles of Wildlife Management	

AGBU 3350	Agribusiness for Agriculture Education Teachers	
Teaching Certification		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
READ 4378	Multiple Literacies in Secondary Education	3
AFNR Student Teaching		
AGED 4364	Methods of Teaching Agriculture Education	3
AGED 4365	Student Teaching in Agriculture Education	3
AGED 4366	Student Teaching in Agriculture Education	3
AGED 4394	Agriculture Education Learning Environments	3
Minor: Not Required [6,7]		
Total Hours		**137**

1 MATH 1324 satisfies Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.
2 CHEM 1406 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.
3 PLSC 2399 is recommended and satisfies Core Curriculum requirement for Component Area V (Creative Arts).
4 ANSC 2360 or ECON 2301 or ECON 2302 is recommended and satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 KINE 2115, NGLI 1101, or ECON 1100 is recommended and satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
6 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
7 The following minors cannot be paired with this degree program: Minor in Conservation Biology and Minor in Early Childhood Education.

Notes

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

First Year

Fall	Hours	Spring	Hours
AGET 2303	3	AGRI 1309 or CSTE 1330	3
ANSC 1319 & ANSC 1119	4	ENGL 1302[1]	3
ENGL 1301[1]	3	HSTY 1302[2]	3
HSTY 1301[2]	3	MATH 1342	3
MATH 1324[3]	3	PLSC 1307 & PLSC 1107	4
	16		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)[4]	3	Component Area III (p. 89)	4
AGBU 2317	3	Component Area IV (p. 89)	3

AGBU 2385	3	Component Area V (p. 90)[7]	3
CHEM 1406[5]	4	Component Area IX (p. 91)[8]	1
POLS 2305[6]	3	AGBU 2389	3
		POLS 2306[6]	3
	16		**17**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
ACOM 3360 or ENGL 3330	3	Advanced PLCS Elective	3	Component Area IX (p. 91)	3
AGBU 3367	3	AGBU 3361	3	AGED 3310	3
AGBU 4363	3	AGBU 4340	3	AGED 4388	3
AGED 3320	3	ANSC 3373	3	AGET 4384	3
CISE 3384	3	CISE 4380	3		
		READ 4378	3		
	15		**18**		**12**

Fourth Year

Fall	Hours	Spring	Hours
ANSC 4360	3	AGED 4364	3
CISE 4364	3	AGED 4365	3
CISE 4379	3	AGED 4366	3
PLSC 4370 or 3395	3	AGED 4394	3
Prescribed Electives[9]	3		
	15		**12**

Total Hours: 137

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 MATH 1324 satisfies Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.
4 ANSC 2360 or ECON 2301 or ECON 2302 is recommended and satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 PLSC 2399 is recommended and satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
8 KINE 2115, NGLI 1101 OR ECON 1100 is recommended and satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
9 Select one course from the Prescribed Electives course listing below.

Code	Title	Hours
Prescribed Electives		
Animal Production Electives [9]		
ANSC 3376	Meat Science	3
ANSC 4376	Sheep & Goat Production & Management	3
ANSC 4380	Beef Cattle Production & Management	3
EQSC 2364	Equine Science	3
WMGT 2301	Principles of Wildlife Management	3
AGBU 3350	Agribusiness for Agriculture Education Teachers	3

Notes

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
The following minors cannot be paired with this degree program: Minor in Conservation Biology and Minor in Early Childhood Education.
The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Agricultural Business with Teaching Certification is designed to provide graduates with the following marketable skills:

- Manage, organize, and conduct Supervised Agricultural Experience Programs and Leadership, Career, and Speaking Development Events.
- Develop annual and long range plans (program of activity, semester, and lesson plans, etc.).
- Use effective research-based techniques to develop a positive classroom environment.
- Create lessons and units of instruction to meet the Texas Essential Knowledge and Skills requirements for Agriculture, Food, and Natural Resources classes.

Bachelor of Science, Major in Agricultural Engineering Technology

The purpose of the Agricultural Engineering Technology curriculum is to provide an educational experience based on the fundamentals of engineering principles and practices. Theory-based lectures will be accompanied by experiential learning activities for persons who intend to pursue a career related to the technical operation and management of an agriculture enterprise. It is expected that graduates will choose a position of leadership and responsibility in a career area associated with service and sales, production, processing, product testing, alternative energies, or a government agency.

Agricultural Engineering Technology majors are required to complete the concentration in Power Machinery Management, a minor area of study or complete the Teacher Certification focus in Agricultural Education. Common minors are Agricultural Business, Plant and Soil Science, and Construction Management.

An internship in an agricultural engineering technology-related business or industry is strongly encouraged for each student. This will provide students 'real-life' learning experiences outside their regular classroom and laboratory opportunities. Students generally seek an internship experience at the end of their sophomore or junior year. Internships may be arranged through a student's contact with providers or through departmental announcements or postings. All internships must be approved by the student's departmental academic adviser prior to the initiation of the internship. Maximum credit for the internships is six (6) credit hours.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-agricultural-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Agricultural Engineering Technology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
ACCT 2301	Principles of Financial Accounting	3
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Introduction to Technical Writing	
ETDD 1361	Engineering Graphics	3
or ETDD 1390	Introduction to Computer Aided Drafting	

or AGET 3350	Plasma Arc Cutting Technology	
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1342	Elementary Statistics	3
MGMT 3310	Principles Of Management (or approved BUAD, AGBU [advanced])	3
PHYS 1401	Physics Boot Camp [2]	4
Major: Foundation		
AGBU 2317	Principles of Agricultural Economics [4]	3
or AGBU 2389	Agribusiness Financial Analysis	
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGET 3300	Agricultural Electrification	3
or AGET 3386	Agricultural Structures and Environmental Control Systems	
AGET 3380	Agricultural Machinery	3
AGET 3383	Soil & Water Conservation Engineering	3
or AGET 4390	Turf & Cropland Irrigation & Drainage	
AGET 4381	Advanced Metal Fabrication in Agriculture	3
AGRI 1309	Computers in Agriculture [4]	3
or CSTE 1330	Introduction to Computers	
or AGBU 2389	Agribusiness Financial Analysis	
AGRI 4371	Agricultural Safety & Health	3
UNIV 1101	Bearkat U [3]	1
Major: Prescribed Electives		
Select one from the following:		4
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	
Advanced AGET Electives: including internship hours [5]		11-17
Minor or Concentration: Required [6, 7]		**18-24**
Minor (18 SCH) [6, 7]		
Concentration: Power Machinery Management (24 SCH) [6]		
AGBU 3361	Agribusiness Organization & Management	
AGBU 3367	Agricultural Finance	
AGET 4372	Agriculture and Construction Equipment Technology	
AGET 4385	Applied Electronics/Hydraulics	
AGET 4387	Agricultural Engines & Tractors	
ETEC 3374	Time And Motion Study	
Concentration Electives (Select 6 advanced hours from: ACCT, AGBU, BUAD, FINC, or MKTG)		
Total Hours		**120**

1 MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.

2 PHYS 1401 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

3 UNIV 1101 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.

4 Students seeking a Concentration in Power Machinery Management must select AGBU 2389.

5 Students pursuing a **Minor take 17 semester credit hours** of approved Agricultural Engineering Technology advanced electives, including internship hours. Students pursuing a **Concentration in Power Machinery Management take 11 semester credit hours** of approved Agricultural Engineering Technology advanced electives, including internship hours.

6 Students have the option of either: (1) pursuing a **Minor with 18 semester credit hours** of coursework or (2) pursuing a **Concentration in Power Machinery Management with 24 semester credit hours** of coursework.

7 The following minors **cannot be paired** with this degree program: Minor in Agriculture Engineering Technology, Minor in Conservation Biology, Minor in Early Childhood Education, and Minor in Wildlife Ecology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-agricultural-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)[1]	3	Component Area I (p. 88)[1]	3
AGET 2303	3	Component Area III (p. 89)[5]	4
AGRI 1309, CSTE 1330, or AGBU 2389[2]	3	Component Area VI (p. 90)[6]	3
MATH 1314[3]	3	Component Area VII (p. 90)[7]	3
UNIV 1101[4]	1	Select either Animal or Plant Science:	4
		ANSC 1319 & ANSC 1119	
		PLSC 1307 & PLSC 1107	
	13		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)[6]	3	Component Area IV (p. 89)	3
Component Area VII (p. 90)[7]	3	Component Area V (p. 90)	3
AGBU 2317 or 2389[2]	3	ACCT 2301	3
MATH 1342	3	ETDD 1361, 1390, or AGET 3350	3
Minor OR Concentration [8, 9, 10]	3	PHYS 1401[5]	4
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Advanced Electives OR Minor Advanced OR Concentration [8, 9, 10, 11]	9
Component Area IX (p. 91)	3	AGET 3300 or 3386	3
Advanced Electives[11]	5	MGMT 3310	3
AGET 3380	3		
	14		**15**

Fourth Year

Fall	Hours	Spring	Hours
ACOM 3360 or ENGL 3330	3	Advanced Electives[11]	3
Advanced Electives OR Minor Advanced OR Concentration[8, 9, 10, 11]	9	AGET 3383 or 4390	3
AGET 4381	3	AGRI 4371	3
		Minor Advanced OR Concentration [8, 9, 10]	6
	15		**15**

Total Hours: 120

1 ENGL 1301 and ENGL 1302 satisfy the Core Curriculum requirement for Component Area I (Communication).
2 Students seeking a Concentration in Power Machinery Management must take AGBU 2389.
3 MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
4 UNIV 1101 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.
5 PHYS 1401 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
6 HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).
7 POLS 2305 and POLS 2306 satisfy the Core Curriculum requirement for Component Area VII (Political Science/Government).

[8] Students have the option of either: (1) pursuing a **Minor with 18 semester credit hours** of coursework or (2) pursuing a **Concentration in Power Machinery Management with 24 semester credit hours** of coursework.

[9] The following minors **cannot be paired** with this degree program: Minor in Agriculture Engineering Technology, Minor in Conservation Biology, Minor in Early Childhood Education, and Minor in Wildlife Ecology.

[10] See the course list for Concentration in Power Machinery Management below.

[11] Students pursuing a **Minor take 17 semester credit hours** of approved Agricultural Engineering Technology advanced electives, including internship hours. Students pursuing a **Concentration in Power Machinery Management take 11 semester credit hours** of approved Agricultural Engineering Technology advanced electives, including internship hours.

Code	Title	Hours
Power Machinery Management Concentration Courses [10]		
AGBU 3361	Agribusiness Organization & Management	3
AGBU 3367	Agricultural Finance	3
AGET 4372	Agriculture and Construction Equipment Technology	3
AGET 4385	Applied Electronics/Hydraulics	3
AGET 4387	Agricultural Engines & Tractors	3
ETEC 3374	Time And Motion Study	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Agricultural Engineering Technology is designed to provide graduates with the following marketable skills:

- Understand the importance and use of technology found in agriculture and related industries for real-world problem solving.
- Evaluate how technology has changed in our society and how those technologies are utilized in modern agriculture and related industries.
- Analyze engineering issues found within agriculture and/or other related industries, and the technological solutions to those problems.
- Apply independent and team-working skills to accomplish objectives and meet organizational goals.
- Demonstrate a work ethic and soft skills that are desirable of an employee.
- Use professional oral and written communication skills for the transfer of technologically-rich knowledge.

Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification

Code	Title	Hours
Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [3]		3

Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists (ACOM 3360 recommended)	3
or ENGL 3330	Introduction to Technical Writing	
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction to Computers	
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
ETDD 1361	Engineering Graphics	3
or ETDD 1390	Introduction to Computer Aided Drafting	
or AGET 3350	Plasma Arc Cutting Technology	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1316	Plane Trigonometry	
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1332	College Mathematics	
MATH 1342	Elementary Statistics	3
PHYS 1401	Physics Boot Camp [2]	4
Major: Foundation		
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2389	Agribusiness Financial Analysis	3
or AGBU 3350	Agribusiness for Agriculture Education Teachers	
AGED 3310	Teaching Agricultural Technology	3
AGED 3320	The Secondary Agriculture Education Program	3
AGED 4388	Secondary Agriculture Education Program Management	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGET 3301	Agriculture Power Units and Control Systems	3
AGET 3380	Agricultural Machinery	3
AGET 3386	Agricultural Structures and Environmental Control Systems	3
AGET 4384	Fusing & Joining of Metals & Non-Metals	3
or AGET 4381	Advanced Metal Fabrication in Agriculture	
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Management Techniques	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 4370	Forage Crops and Pasture Management	3
or PLSC 3395	Plant Propagation Techniques	
Advanced PLSC Elective		3
Major: Prescribed Electives		
Select 3 hours from Animal Production Electives:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Management	
ANSC 4380	Beef Cattle Production & Management	
EQSC 2364	Equine Science	
WMGT 2301	Principles of Wildlife Management	
Teaching Certification		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3

CISE 4380	Responsibilities of the Professional Educator	3
READ 4378	Multiple Literacies in Secondary Education	3
Secondary Ed Courses - AGED		
AGED 4364	Methods of Teaching Agriculture Education	3
AGED 4365	Student Teaching in Agriculture Education	3
AGED 4366	Student Teaching in Agriculture Education	3
AGED 4394	Agriculture Education Learning Environments	3
Minor: Not Required [6, 7]		
Total Hours		**134**

1 MATH 1314 or MATH 1332 is recommended. Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 CHEM 1406 and PHYS 1401 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement for the major.
3 PLSC 2399 is recommended and satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
4 ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 KINE 2115, NGLI 1101, or ECON 1100 is recommended and satisfies one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
6 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
7 The following minors cannot be paired with this degree program: Minor in Conservation Biology, Minor in Early Childhood Education, and Minor in Wildlife Ecology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
AGET 2303	3	Component Area IX [4]	1
ANSC 1319 & ANSC 1119	4	ENGL 1302[1]	3
ENGL 1301[1]	3	HSTY 1302[2]	3
HSTY 1301[2]	3	PLSC 1307 & PLSC 1107	4
MATH 1314, 1316, 1324, or 1332[3]	3	POLS 2305[5]	3
	16		**14**

Second Year

Fall	Hours	Spring	Hours
AGBU 2317	3	Component Area V (p. 90)[7]	3
AGRI 1309 or CSTE 1330	3	Component Area VIII (p. 90)[8]	3
CHEM 1406[6]	4	AGBU 2389 or 3350	3
MATH 1342	3	AGET 3301	3
POLS 2306[5]	3	ETDD 1361, 1390, or AGET 3350	3

		Major: Prescribed Electives[9]	3		
	16		**18**		

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGED 3320	3	Component Area IX (p. 91)	3	ACOM 3360 or ENGL 3330	3
ANSC 3373	3	AGET 3386	3	Advanced PLSC Elective	3
CISE 3384	3	AGET 4384 or 4381	3	AGED 3310	3
PHYS 1401[6]	4	CISE 4380	3	AGED 4388	3
		PLSC 4370 or 3395	3		
		READ 4378	3		
	13		**18**		**12**

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	AGED 4364	3
AGET 3380	3	AGED 4365	3
ANSC 4360	3	AGED 4366	3
CISE 4364	3	AGED 4394	3
CISE 4379	3		
	15		**12**

Total Hours: 134

1 Satisfies the Core Curriculum requirement for Component Area I (Communication).
2 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
3 MATH 1314 or MATH 1332 is recommended. Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
4 KINE 2115, NGLI 1101 or ECON 1100 is recommended and satisfies one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
6 CHEM 1406 and PHYS 1401 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement for the major.
7 PLSC 2399 is recommended and satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
8 ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
9 Select one of the Prescribed Electives from the course list below.

Code	Title	Hours
Prescribed Electives		
Animal Production Electives [9]		
ANSC 3376	Meat Science	3
ANSC 4376	Sheep & Goat Production & Management	3
ANSC 4380	Beef Cattle Production & Management	3
EQSC 2364	Equine Science	3
WMGT 2301	Principles of Wildlife Management	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU major GPA in all major coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Conservation Biology, Minor in Early Childhood Education, and Minor in Wildlife Ecology.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Agricultural Engineering Technology with Teaching Certification is designed to provide graduates with the following marketable skills:

- Understand the importance and use of technology found in the agriculture and related industries for real-world problem solving.
- Evaluate how technology has changed in our society and how those technologies are used in modern agriculture and related industries.
- Analyze engineering issues found within the agriculture and/or other related industries and the technological solutions to those problems.
- Apply independent and team-working skills to accomplish objectives and meet organizational goals.
- Demonstrate a work ethic and soft skills that are desirable of an employee.
- Use professional oral and written communication skills for the transfer of technologically-rich knowledge.
- Manage, organize, and conduct Supervised Agricultural Experience Programs, Leadership, Career, and Speaking Development Events.
- Develop Annual and Long Range Plans (Program of Activity, Semester, and Lesson Plans, etc.).
- Use effective research-based techniques to develop a positive classroom environment.
- Create lessons and units of instruction to meet the Texas Essential Knowledge and Skills requirements for Agriculture, Food, and Natural Resources classes.

Bachelor of Science, Major in Animal Science

The major emphasis in Animal Science prepares students for careers in the livestock and equine production and support industries. Scientific principles, management, production technologies, and skills are covered in appropriate courses. The University maintains herds and flocks for teaching and research. Students may complete pre-veterinary medicine, equine science, wildlife management and conservation biology requirements under the Animal Science program. Graduates can expect to qualify for positions in sales and service, inspection, regulation, research/teaching, breed associations, extension, or management in an animal, equine and/or wildlife management industry.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-animal-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Animal Science		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3

or ENGL 3330	Introduction to Technical Writing	
CHEM 1406	Inorganic & Environmental Chemistry [1]	4
or CHEM 1411	General Chemistry I	
CHEM 1407	Introduction to Organic and Biochemistry [1]	4
or CHEM 1412	General Chemistry II	
COMS 1361	Public Speaking [3]	3
or COMS 2382	Communication for Business & the Professions	
MATH 1342	Elementary Statistics [4]	3
Major: Foundation		
AGBU 2317	Principles of Agricultural Economics	3
or AGBU 2389	Agribusiness Financial Analysis	
AGRI 4120	Professional Career Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2360	Animals and Society [2]	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 4370	Forage Crops and Pasture Management	3
or PLSC 4383	Range Management	
Major: Prescribed Electives		
Select one course from the following:		3
AGRI 4350	Agricultural Biosecurity	
ANSC 4393	Animal Legal Issues	
ANSC 4397	Disaster/Emergency Management in Agriculture	
ANSC 4398	Animal Diseases & Public Health	
Prescribed Electives [5]		18
Select 18 hours (9 hours must be advanced) from AGRI 4096, ANSC, EQSC, or WMGT Electives		
Minor: Required		
Minor [6]		6
Minor (Advanced) [6]		12
Total Hours		**120**

1. CHEM 1406, CHEM 1411, CHEM 1407, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.
2. ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
3. COMS 1361 and COMS 2382 satisfy three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.
4. MATH 1342 is to be taken in addition to a MATH course that satisfies Component Area II.
5. To fulfill this requirement, select 18 hours (9 hours must be advanced) from AGRI 4096, ANSC, EQSC, or WGMT Electives.
6. The following minors cannot be paired with this degree program: Minor in Early Childhood Education or Wildlife Ecology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-animal-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)[1]	3	Component Area I (p. 88)[1]	3
Component Area II (p. 89)	3	Component Area IV (p. 89)	3
Component Area IX (p. 91)	1	ANSC 2360[3]	3
ANSC 1319 & ANSC 1119	4	CHEM 1406 or 1411[4]	4
Minor[2]	3	COMS 1361 or 2382[5]	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
ANSC 3363	3	ANSC 3373	3
CHEM 1407 or 1412[4]	4	ANSC 4393, 4397, 4398, or AGRI 4350	3
Minor[2]	3	Prescribed Electives[6]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	ACOM 3360 or ENGL 3330	3
ANSC 3376	3	AGBU 2317 or 2389	3
ANSC 4395	3	ANSC 4389	3
Prescribed Electives[6]	3	MATH 1342[7]	3
		PLSC 1307 & PLSC 1107	4
	12		**16**

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	Minor Advanced [2]	9
ANSC 4394	3	Prescribed Electives[6]	6
PLSC 4370 or 4383	3		
Minor Advanced [2]	3		
Prescribed Electives[6]	6		
	16		**15**

Total Hours: 120

1 ENGL 1301 and ENGL 1302 satisfy the Core Curriculum requirement for Component Area I (Communication).
2 The following minor cannot be paired with this degree program: Minor in Early Childhood Education or Wildlife Ecology.
3 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 CHEM 1406, CHEM 1411, CHEM 1407, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.
5 COMS 1361 and COMS 2382 satisfy three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.
6 To fulfill this requirement, select 18 hours (9 hours must be advanced) from AGRI 4096, ANSC, EQSC, or WGMT Electives.
7 MATH 1342 is to be taken in addition to a MATH course that satisfies Component Area II.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Animal Science is designed to provide graduates with the following marketable skills:

- Ability to make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledge of each segment of the food animal and meat industry and make critical marketing decisions in each.
- Understand nutrition as it applies to animal performance and be able to develop balanced rations to meet physiological and production needs.
- Develop presentations and effectively communicate factual information, logically and concisely, both orally and in writing.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.

Bachelor of Science, Major in Animal Science: Animal Care and Welfare Concentration

Code	Title	Hours
Bachelor of Science, Major in Animal Science: Animal Care and Welfare Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirement		
CHEM 1411	General Chemistry I [1]	4
or CHEM 1406	Inorganic & Environmental Chemistry	
CHEM 1412	General Chemistry II [1]	4
or CHEM 1407	Introduction to Organic and Biochemistry	
COMS 1361	Public Speaking [3]	3
or COMS 2382	Communication for Business & the Professions	
ENGL 3330	Introduction to Technical Writing	3
or ACOM 3360	Communication Skills for Agriculturists	
MATH 1342	Elementary Statistics	3
or MATH 1316	Plane Trigonometry	
Major: Foundation Courses		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2360	Animals and Society [2]	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3

ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
AGRI 4120	Professional Career Skills	1
Major: Prescribed Electives		
Animal Science Major Electives: Select 13 hours -- ANSC/EQSC/WMGT Electives, BIOL 1406, BIOL 1407, or AGRI 4096		13
Concentration: Animal Care and Welfare		
AGRI 4350	Agricultural Biosecurity	3
ANSC 2330	Companion Animal Science	3
ANSC 2340	Application of Small Animal Behavior Modification	3
ANSC 4337	Behavior and Management of Domestic Animals	3
ANSC 4393	Animal Legal Issues	3
ANSC 4397	Disaster/Emergency Management in Agriculture	3
ANSC 4398	Animal Diseases & Public Health	3
EQSC 2364	Equine Science	3
EQSC 2365	Equine Safety and Handling	3
EQSC 4379	Equine Nutrition	3
WMGT 2301	Principles of Wildlife Management	3
WMGT Advanced Elective (WMGT 3000 or 4000)		3
Total Hours		**120**

1 CHEM 1406, CHEM 1407, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

2 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.

3 COMS 1361 and COMS 2382 satisfy the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use major elective hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area II (p. 89)		3 Component Area VI (p. 90)	3
ANSC 1319 & ANSC 1119		4 ANSC 2360[2]	3
COMS 1361 or 2382[1]		3 CHEM 1411 or 1406[3]	4
		EQSC 2364	3
	13		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area V (p. 90)	3
Component Area VI (p. 90)		3 ANSC 2340	3
ANSC 2330		3 ANSC 3363	3
MATH 1342 or 1316		3 ANSC 3373	3

WMGT 2301	3	CHEM 1412 or 1407[3]	4
	15		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area VII (p. 90)	3
Component Area IX (p. 91)	1	AGRI 4350	3
ANSC 3376	3	ANSC 4397	3
ENGL 3330 or ACOM 3360	3	ANSC 4398	3
EQSC 2365	3		
WMGT Advanced Elective (3000-4000)	3		
	16		**12**

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	ANSC 4337	3
ANSC 4393	3	ANSC 4389	3
ANSC 4394	3	ANSC 4395	3
EQSC 4379	3	Prescribed Electives: ANSC/EQSC/WMGT Electives, BIOL 1406, BIOL 1407, or AGRI 4096	7
Prescribed Electives: ANSC/EQSC/WMGT Electives, BIOL 1406, BIOL 1407, or AGRI 4096	6		
	16		**16**

Total Hours: 120

1 COMS 1361 and COMS 2382 satisfy the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.

2 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.

3 CHEM 1406, CHEM 1407, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use major elective hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Animal Science: Animal Care and Welfare Concentration is designed to provide graduates with the following marketable skills:

- Define the laws, regulations, and responsibilities for a livestock/animal owner.
- Assess animal behavior as it relates to instinctive behavior versus behavior of distress.
- Assess and implement a plan to maintain the welfare of animals during times of disasters and emergencies.
- Demonstrate proper handling techniques for livestock/animal and the ability to access and maintain a safe environment of both animal and handler.
- Interpret the interaction of animals and humans and how it relates to society and individual well-being.

Bachelor of Science, Major in Animal Science with Teaching Certification

Code	Title	Hours
Bachelor of Science, Major in Animal Science with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
CHEM 1407	Introduction to Organic and Biochemistry [2]	4
or CHEM 1412	General Chemistry II	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1332	College Mathematics	
or MATH 1324	Mathematics for Managerial Decision Making	
MATH 1342	Elementary Statistics	3
Major: Foundation		
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2389	Agribusiness Financial Analysis	3
or AGBU 3350	Agribusiness for Agriculture Education Teachers	
AGED 3310	Teaching Agricultural Technology	3
AGED 3320	The Secondary Agriculture Education Program	3
AGED 4388	Secondary Agriculture Education Program Management	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGET 4384	Fusing & Joining of Metals & Non-Metals	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4360	Livestock Management Techniques	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 4370	Forage Crops and Pasture Management	3
or PLSC 4383	Range Management	
Advanced PLSC Elective		3
Major: Prescribed Electives		
Select one from the following:		3
AGRI 4350	Agricultural Biosecurity	
ANSC 4393	Animal Legal Issues	
ANSC 4397	Disaster/Emergency Management in Agriculture	
ANSC 4398	Animal Diseases & Public Health	
Animal Production Electives		

Select one from the following:		3
ANSC 4376	Sheep & Goat Production & Management	
ANSC 4380	Beef Cattle Production & Management	
EQSC 2364	Equine Science	
WMGT 2301	Principles of Wildlife Management	
Teaching Certification		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
READ 4378	Multiple Literacies in Secondary Education	3
Secondary Ed Courses - AGED		
AGED 4364	Methods of Teaching Agriculture Education	3
AGED 4365	Student Teaching in Agriculture Education	3
AGED 4366	Student Teaching in Agriculture Education	3
AGED 4394	Agriculture Education Learning Environments	3
Minor: Not Required [5, 6]		
Total Hours		**134**

1 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 CHEM 1406, CHEM 1407, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

3 PLSC 2399 is recommended and satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

4 ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

6 The following minor cannot be paired with this degree program: Minor in Early Childhood Education.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	CHEM 1406 or 1411[3]	4
AGET 2303	3	ENGL 1302[1]	3
ANSC 1319 & ANSC 1119	4	HSTY 1301[4]	3
ENGL 1301[1]	3	MATH 1342	3
MATH 1314, 1332, or 1324[2]	3	PLSC 1307 & PLSC 1107	4
	14		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)[5]	3	Component Area IV (p. 89)	3
AGBU 2317	3	Component Area VIII (p. 90)[6]	3

ANSC 3363	3	ANSC 3373	3
CHEM 1407 or 1412[3]	4	ANSC 4393, 4397, 4398, or AGRI 4350	3
HSTY 1302[4]	3	POLS 2305[7]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGBU 2389 or 3350	3	ACOM 3360	3	Component Area IX (p. 91)	3
AGED 3320	3	ANSC 4360	3	Advanced PLSC Elective	3
ANSC 3376	3	ANSC 4389	3	AGED 3310	3
CISE 3384	3	CISE 4380	3	AGED 4388	3
POLS 2306[7]	3	PLSC 4370 or 4383	3		
		READ 4378	3		
	15		**18**		**12**

Fourth Year

Fall	Hours	Spring	Hours
AGET 4384	3	AGED 4364	3
ANSC 4394	3	AGED 4365	3
CISE 4364	3	AGED 4366	3
CISE 4379	3	AGED 4394	3
Animal Production Electives [8]	3		
	15		**12**

Total Hours: 134

1. Satisfies the Core Curriculum requirement for Component Area I (Communication).
2. Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
3. CHEM 1406, CHEM 1407, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.
4. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
5. PLSC 2399 is recommended and satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
6. ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
8. Select three hours from the Animal Production Electives list below.

Code	Title	Hours
Animal Production Electives [8]		**3**
Select one from the following:		
ANSC 4376	Sheep & Goat Production & Management	
ANSC 4380	Beef Cattle Production & Management	
EQSC 2364	Equine Science	
WMGT 2301	Principles of Wildlife Management	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

The following minor cannot be paired with this degree program: Minor in Early Childhood Education.

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The BS in Animal Science with Teaching Certification is designed to provide graduates with the following marketable skills:

- Ability to make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledgeable of each segment of the food animal and meat industry and make critical marketing decisions in each.
- Understand nutrition as it applies to animal performance and be able to develop balanced rations to meet physiological and production needs.
- Develop presentations and effectively communicate factual information, logically and concisely, both orally and in writing.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.
- Manage, organize, and conduct Supervised Agricultural Experience Programs, Leadership, Career, and Speaking Development Events.
- Develop annual and long range plans (program of activity, semester, and lesson plans, etc.).
- Utilize effective research based techniques to develop a positive classroom environment.
- Create lessons and units of instruction to meet the Texas Essential Knowledge and Skills requirements for Agriculture, Food, and Natural Resources classes.

Bachelor of Science, Major in Animal Science, Minor in Conservation Biology

The BS, Major in Animal Science with Conservation Biology minor is an excellent choice for those students wanting to enter agricultural and wildlife or natural resource management careers or for those interested in graduate school in wildlife sciences. Students selecting this degree should indicate Animal Science as their major and WECO as their minor.

Code	Title	Hours
Bachelor of Science, Animal Science, Minor in Conservation Biology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Introduction to Technical Writing	
COMS 1361	Public Speaking [2]	3
or COMS 2382	Communication for Business & the Professions	
MATH 1342	Elementary Statistics	3
Major: Foundation		
AGRI 4120	Professional Career Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3

ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
PLSC 4383	Range Management	3
or PLSC 4370	Forage Crops and Pasture Management	
WMGT 2301	Principles of Wildlife Management	3
WMGT 3381	Game Animal Production	3
Major: Prescribed Electives		
Select one from the following:		3
AGRI 4350	Agricultural Biosecurity	
ANSC 4393	Animal Legal Issues	
ANSC 4397	Disaster/Emergency Management in Agriculture	
ANSC 4398	Animal Diseases & Public Health	
Prescribed Electives [3,4]		**15**
Minor: Required [5]		
Minor [5]		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 3409	General Ecology	4
BIOL 3461	Wildlife Biology	4
BIOL 3364	Plant Taxonomy	3
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II [1]	4
Select one from the following:		3
BIOL 4330	Aquatic Biology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
Total Hours		**120**

1 CHEM 1411, CHEM 1412, BIOL 1406, and BIOL 1407 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.
2 COMS 1361 or COMS 2382 satisfies three hours of Component Area IX and degree specific area.
3 Students should use major elective hours to satisfy the 42 advanced hour requirement.
4 Select 15 hours from the following: ANSC, EQSC, or WMGT.
5 The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Wildlife Ecology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area II (p. 89)		3 Component Area IV (p. 89)	3
Component Area IX (p. 91)		1 CHEM 1411[1]	4
ANSC 1319 & ANSC 1119		4 COMS 1361 or 2382[2]	3

BIOL 1406	4	MATH 1342	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
ANSC 3363	3	Component Area VIII (p. 90)	3
BIOL 1407	4	ANSC 3373	3
CHEM 1412[1]	4	ANSC 4393, 4397, 4398, or AGRI 4350	3
	17		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	ACOM 3360 or ENGL 3330	3
ANSC 3376	3	ANSC 4389	3
ANSC 4395	3	PLSC 4383 or 4370	3
WMGT 2301	3	WMGT 3381	3
Prescribed Electives[3]	3		
	15		**12**

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	BIOL 3461	4
ANSC 4394	3	BIOL 3364	3
BIOL 3409	4	BIOL 4330, 4430, or 4470	3
Prescribed Electives[3]	6	Prescribed Electives[3]	6
	14		**16**

Total Hours: 120

1 CHEM 1411, CHEM 1412, BIOL 1406, and BIOL 1407 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.

2 COMS 1361 or COMS 2382 satisfies three hours of Component Area IX and degree specific area.

3 Select 15 hours from the following: ANSC, EQSC, or WMGT. In addition, students should use major electives to satisfy the 42 hour advanced credit requirement.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Wildlife Ecology.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Animal Science, Minor in Conservation Biology is designed to provide graduates with the following marketable skills:

- Ability to make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledgeable of each segment of the food animal and meat industry and make critical marketing decisions in each.
- Understand nutrition as it applies to animal performance and be able to develop balanced rations to meet physiological and production needs.
- Develop presentations and effectively communicate factual information, logically and concisely, both orally and in writing.

- Understand anatomy, physiology, and functions of the major organs and systems of livestock.

Bachelor of Science, Major in Animal Science, Minor in Wildlife Management

Code	Title	Hours
Bachelor of Science, Animal Science, Minor in Wildlife Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [2]		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Introduction to Technical Writing	
CHEM 1406	Inorganic & Environmental Chemistry [1]	4
or CHEM 1411	General Chemistry I	
CHEM 1407	Introduction to Organic and Biochemistry [1]	4
or CHEM 1412	General Chemistry II	
or BIOL 1407	General Biology II	
COMS 1361	Public Speaking [3]	3
or COMS 2382	Communication for Business & the Professions	
MATH 1342	Elementary Statistics	3
Major: Foundation		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2360	Animals and Society [2]	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
PLSC 4383	Range Management	3
or PLSC 4370	Forage Crops and Pasture Management	
Major		
AGRI 4120	Professional Career Skills	1
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Select one from the following:		3
AGBU 2317	Principles of Agricultural Economics	
AGBU 2389	Agribusiness Financial Analysis	
Major: Prescribed Electives		
ANSC or EQSC Electives (9 hours must be advanced)		18
Minor: Required		
WMGT 2301	Principles of Wildlife Management	3
WMGT 3301	Wildlife Ranch Management	3
Minor: Prescribed Electives		

WMGT Electives (6 hours must be advanced)	15
Total Hours	**120**

1 CHEM 1406, CHEM 1407, CHEM 1411, CHEM 1412, and BIOL 1407 satisfy the Core Curriculum requirements for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

2 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.

3 COMS 1361 and COMS 2382 satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use major elective hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)	3	Component Area IV (p. 89)	3
Component Area IX (p. 91)	1	Component Area VI (p. 90)	3
ANSC 1319 & ANSC 1119	4	ANSC 2360[1]	3
WMGT 2301	3	CHEM 1406 or 1411[2]	4
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area VII (p. 90)	3
Component Area VI (p. 90)	3	AGBU 2317 or 2389	3
ANSC 3363	3	ANSC 3373	3
CHEM 1407, 1412, or BIOL 1407[2]	4	ANSC or EQSC Electives[4]	3
WMGT 3301	3	COMS 1361 or 2382[3]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	ACOM 3360 or ENGL 3330	3
ANSC 3376	3	ANSC 4389	3
ANSC 4395	3	MATH 1342	3
ANSC or EQSC Electives [4]	6	Minor: WMGT Electives[5]	3
		PLSC 1307 & PLSC 1107	4
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	ANSC or EQSC Electives[4]	6
ANSC 4394	3	Minor: WMGT Electives[5]	9
ANSC or EQSC Electives [4]	3		
Minor: WMGT Electives[5]	3		
PLSC 4383 or 4370	3		
	13		**15**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
2 CHEM 1406, CHEM 1407, CHEM 1411, CHEM 1412, and BIOL 1407 satisfy the Core Curriculum requirements for Component Area III (Life and Physical Science) and the Degree Specific Requirement.
3 COMS 1361 and COMS 2382 satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.
4 ANSC or EQSC Electives: 9 hours must be advanced.
5 WMGT Electives: 15 hours total with a minimum of 6 hours advanced.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use major elective hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Animal Science, Minor in Wildlife Management is designed to provide graduates with the following marketable skills:

- Make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledgeable of each segment of the food animal and meat industry and make critical marketing decisions in each.
- Understand nutrition as it applies to animal performance and be able to develop balanced rations to meet physiological and production needs.
- Develop presentations and effectively communicate factual information, logically and concisely, both orally and in writing.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.

Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine

Code	Title	Hours
Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
ANSC 2360	Animals and Society [3]	3
COMS 2382	Communication for Business & the Professions [4]	3
or COMS 1361	Public Speaking	
ENGL 3330	Introduction to Technical Writing	3
or ACOM 3360	Communication Skills for Agriculturists	
MATH 1316	Plane Trigonometry [1]	3
STAT 3379	Statistical Methods in Practice	3
Major: Foundation		

AGRI 4120	Professional Career Skills	1
AGRI 4350	Agricultural Biosecurity	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2330	Companion Animal Science	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
ANSC 4398	Animal Diseases & Public Health	3
Major: Prescribed Advanced Electives		
Select eight hours from AGRI 4096, ANSC, EQSC, or WMGT		8
Concentration: Pre-Veterinary		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
Minor: Not Required [5, 6]		
Total Hours		**120**

1 MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.

3 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

4 COMS 2382 and COMS 1361 satisfy the Core Curriculum requirement for Component Area IX and the Degree Specific Requirement.

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Wildlife Ecology.

Notes

Students must earn a 3.0 minimum overall GPA in all coursework to remain in Pre-Veterinary concentration.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
ANSC 1319 & ANSC 1119		4 Component Area IV (p. 89)	3
BIOL 1406		4 ANSC 2330	3
CHEM 1411[1]		4 BIOL 1407	4
MATH 1316[2]		3 CHEM 1412[1]	4

		ENGL 1301[3]	3
	15		**17**

Second Year

Fall	Hours	Spring	Hours
ANSC 3363	3	ANSC 2360[6]	3
CHEM 2323 & CHEM 2123	4	ANSC 3373	3
ENGL 1302[3]	3	CHEM 2325 & CHEM 2125	4
HSTY 1301	3	COMS 2382 or 1361[7]	3
Major Prescribed Electives[5]	4	HSTY 1302	3
	17		**16**

Third Year

Fall	Hours	Spring	Hours
ANSC 3376	3	ANSC 4389	3
BIOL 3450	4	BIOL 3470	4
PHYS 1301 & PHYS 1101	4	Major Prescribed Electives[5]	4
POLS 2305[8]	3	POLS 2306[8]	3
	14		**14**

Fourth Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	AGRI 4350	3
Component Area IX (p. 91)	1	ANSC 4394	3
AGRI 4120	1	ANSC 4395	3
CHEM 3438	4	ANSC 4398	3
ENGL 3330 or ACOM 3360	3		
STAT 3379	3		
	15		**12**

Total Hours: 120

1. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.
2. Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.
3. Satisfies the Core Curriculum requirement for Component Area I (Communication).
4. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
5. Select eight hours from AGRI 4096, ANSC, EQSC, or WMGT.
6. ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7. COMS 2382 or COMS 1361 satisfy the Core Curriculum requirement for Component Area IX and the Degree Specific Requirement.
8. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 3.0 minimum overall GPA in all coursework to remain in Pre-Veterinary concentration.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree, however, if a student chooses a minor, the following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Wildlife Ecology.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Animal Science, Pre-Veterinary Medicine is designed to provide graduates with the following marketable skills:

- Make livestock management decisions based on scientific, economic, and other applicable information.
- Knowledge of each segment of the food animal and meat industry and make critical marketing decisions in each.
- Understand nutrition as it applies to animal performance and be able to develop balanced rations to meet physiological and production needs.
- Develop presentations and effectively communicate factual information, logically and concisely, in both oral and written form.
- Understand anatomy, physiology, and functions of the major organs and systems of livestock.

Bachelor of Science, Major in Interdisciplinary Agriculture

This program is designed to meet the needs of students desiring a program of study in Agricultural Production Management, Agricultural Education, Extension Education, or any of several other fields of study. The program allows for the selection of a minor in special interest areas such as Chemistry, Biology, Business, Environmental Science, Secondary Education, or Computer Science. Specified course requirements for the major are structured to meet the specific needs of an individual student with the approval of the faculty advisor.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-interdisciplinary-agriculture/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Agriculture		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1332	College Mathematics	
MATH 1342	Elementary Statistics	3
Major: Foundation		
ACOM 3360	Communication Skills for Agriculturists	3
AGBU 2317	Principles of Agricultural Economics	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction to Computers	
AGRI 4120	Professional Career Skills	1
AGRI 4388	Principles of Agriculture Leadership & Community Development	3
ANSC 1119	Animal Science Laboratory	1
ANSC 1319	Animal Science	3
ANSC 3373	Animal Nutrition	3
PLSC 1107	Plant Science Laboratory	1
PLSC 1307	Plant Science	3

Advanced PLSC Elective		3
Major: Prescribed Electives		
AGBU Electives		3
Select one course from the following:		
AGBU 2385	Analysis of the Agricultural Sector	
AGBU 3385	Quantitative Methods for Agribusiness	
AGBU 4340	Agribusiness Marketing	
AGBU 4363	Agricultural Sales & Consulting	
AGBU 4365	Legal Issues in Agribusiness	
AGBU 4377	Economics of Land Use & Planning	
General Electives [5]		**3**
Advanced Prescribed Electives [6]		**21**
Minor: Required [7]		
Minor		9
Minor Advanced		9
Total Hours		**120**

1. MATH 1314, MATH 1324, or MATH 1332 satisfy the Core Curriculum requirement for Component Area II (Mathematics).
2. CHEM 1406 and CHEM 1411 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.
3. PLSC 2399 is recommended to fulfill the Core Curriculum requirement for Component Area V (Creative Arts).
4. ANSC 2360 is recommended to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5. Choose from ACOM, AGBU, AGED, AGET, AGRI, ANSC, EQSC, PLSC or WMGT courses to meet the General Electives degree requirement.
6. Choose from ACOM, AGBU, AGED, AGET, AGRI, ANSC, EQSC, PLSC or WMGT courses to meet the Advanced Prescribed Electives degree requirement.
7. The following minors cannot be paired with this degree program: Minor in Agricultural Engineering Technology, Minor in Animal Science, Minor in Applied Ethics and Critical Thinking, Minor in Conservation Biology, Minor in Early Childhood Education, Minor in Equine Science, Minor in Interior Design, Minor in Plant and Soil Sciences, and Minor in Wildlife Ecology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-interdisciplinary-agriculture/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
ANSC 1319 & ANSC 1119		4 Component Area III (p. 89)	4
ENGL 1301[1]		3 AGET 2303	3
HSTY 1301[2]		3 ENGL 1302[1]	3
MATH 1314		3 HSTY 1302[2]	3
		PLSC 1307 & PLSC 1107	4
	13		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)[4]		3 Component Area VIII (p. 90)[6]	3
AGBU 2317		3 CHEM 1406 or 1411[7]	4
AGRI 1309 or CSTE 1330		3 POLS 2306[5]	3

MATH 1342		3 Minor[8]	3
POLS 2305[5]		3 General Electives[9]	3
		15	**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)	3
ACOM 3360		3 Component Area IX (p. 91)	1
Advanced Prescribed Electives[10]		3 ANSC 3373	3
AGBU Prescribed Elective[11]		3 Advanced Prescribed Electives[10]	3
Minor[8]		3 Minor[8]	3
		15	**13**

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120		1 AGRI 4388	3
Minor Advanced[8]		3 Advanced Prescribed Electives[10]	6
Advanced PLSC Elective		3 Minor Advanced[8]	6
Advanced Prescribed Electives[10]		9	
		16	**15**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 MATH 1314, MATH 1324, or MATH 1332 satisfy the Core Curriculum requirement for Component Area II (Mathematics).
4 PLSC 2399 is recommended to fulfill the Core Curriculum requirement for Component Area V (Creative Arts).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 ANSC 2360 is recommended to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7 CHEM 1406 and CHEM 1411 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.
8 The following minors cannot be paired with this degree program: Minor in Agricultural Engineering Technology, Minor in Animal Science, Minor in Applied Ethics and Critical Thinking, Minor in Conservation Biology, Minor in Early Childhood Education, Minor in Equine Science, Minor in Interior Design, Minor in Plant and Soil Sciences, and Minor in Wildlife Ecology.
9 Choose from ACOM, AGBU, AGED, AGET, AGRI, ANSC, EQSC, PLSC or WMGT courses to meet the General Electives degree requirement.
10 Choose from ACOM, AGBU, AGED, AGET, AGRI, ANSC, EQSC, PLSC or WMGT courses to meet the Advanced Prescribed Electives degree requirement.
11 Select 3 hours of AGBU Prescribed Electives from the below list.

Code	Title	Hours
AGBU Prescribed Electives [11]		
Select one course from the following:		
AGBU 2385	Analysis of the Agricultural Sector	3
AGBU 3385	Quantitative Methods for Agribusiness	3
AGBU 4340	Agribusiness Marketing	3
AGBU 4363	Agricultural Sales & Consulting	3
AGBU 4365	Legal Issues in Agribusiness	3
AGBU 4377	Economics of Land Use & Planning	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Interdisciplinary Agriculture is designed to provide graduates with the following marketable skills:

- Apply independent and team-working skills to accomplish objectives and meet deadlines in a variety of agricultural enterprises.
- Demonstrate a work ethic and soft skills that are desirable of an employee.
- Analyze situational aspects and engage in critical thinking skills to formulate and implement problem-solving techniques in agricultural enterprises.
- Organize human, physical, and financial resources.
- Understand the importance and use of technology found in the agricultural and related industries for real-world problem solving.

Bachelor of Science, Major in Interdisciplinary Agriculture: Agricultural Industries

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Agriculture: Agricultural Industries Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1332	College Mathematics	
MATH 1342	Elementary Statistics	3
Major: Interdisciplinary Argriculture		
ACOM 3360	Communication Skills for Agriculturists	3
AGBU 2317	Principles of Agricultural Economics	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGRI 1309	Computers in Agriculture	3
or CSTE 1330	Introduction to Computers	
AGRI 4120	Professional Career Skills	1
AGRI 4388	Principles of Agriculture Leadership & Community Development	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Advanced PLSC Elective		3
Major: Prescribed Electives		
Select 3 hours from the following: AGRI, AGBU, ACOM, AGET, AGED, ANSC, EQSC, PLSC, or WMGT		3
Major: Advanced Prescribed Electives		
Select 21 hours from the following: AGRI, AGBU, ACOM, AGET, AGED, ANSC, CISE, EQSC, PLSC, or WMGT		21
Major Concentration: Agricultural Industries		

AGED 3320	The Secondary Agriculture Education Program	3
AGED 4377	Cooperative Extension Programs	3
Concentration: Ag Industries Electives		
Select 12 hours from the following:		12
AGED 4364	Methods of Teaching Agriculture Education	
AGED 4394	Agriculture Education Learning Environments	
AGRI 4350	Agricultural Biosecurity	
AGRI 4371	Agricultural Safety & Health	
CATM 4360	Work-Based Mentorship [4]	
Concentration: Advanced Prescribed Electives		
Select 3 advanced hours (3000-4000) from the following: AGRI, CISE, READ, TESL, or SPED		3
Total Hours		**120**

1 MATH 1314, MATH 1324 or MATH 1332 satisfy the Core Curriculum requirement for Component Area II (Mathematics).
2 CHEM 1406 and CHEM 1411 satisfy the requirement for Core Curriculum Component Area III (Life and Physical Science) and the Degree Specific requirement.
3 ANSC 2360 is recommended to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4 This course can be completed up to 3 times for a total of 9 credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	Component Area VIII (p. 90)[4]	3
ANSC 1319 & ANSC 1119	4	AGET 2303	3
ENGL 1301[1]	3	ENGL 1302[1]	3
HSTY 1301[2]	3	HSTY 1302[2]	3
MATH 1314, 1324, or 1332[3]	3	PLSC 1307 & PLSC 1107	4
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area IV (p. 89)	3
Component Area V (p. 90)	3	AGED 3320	3
AGBU 2317	3	CHEM 1406 or 1411[6]	4
AGRI 1309 or CSTE 1330	3	POLS 2306[5]	3
POLS 2305[5]	3		
	16		**13**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
ANSC 3373	3	Component Area IX (p. 91)	3	Concentration: Ag Industries Elective[8]	3
MATH 1342	3	AGRI 4388	3		

Advanced PLSC Elective	3	Advanced Prescribed Electives[7]	9	
Advanced Prescribed Electives[7]	6	Concentration: Ag Industries Electives[8]	3	
	15		**18**	**3**

Fourth Year

Fall	Hours	Spring	Hours	
ACOM 3360	3	AGED 4377	3	
AGRI 4120	1	Concentration: Ag Industries Electives[8]	6	
Advanced Prescribed Electives[7]	6	Prescribed Elective[10]	3	
Concentration: Advanced Prescribed Electives[9]	3			
	13		**12**	

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area I: Communications.
2 Satisfies the Core Curriculum requirement for Component Area IV: U.S. History.
3 Satisfies the Core Curriculum requirement for Component Area II: Mathematics.
4 ANSC 2360 is recommended to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 Satisfies the Core Curriculum requirement for Component Area VII: Political Science/Government.
6 CHEM 1406 and CHEM 1411 satisfy the requirement for Core Curriculum Component Area III: Life and Physical Science and the Degree Specific requirement.
7 Select courses from the following: AGRI, AGBU, ACOM, AGET, AGED, ANSC, CISE, EQSC, PLSC, or WMGT.
8 Select courses from the Concentration: Ag. Industries course listing below.
9 Select Advanced (3000 - 4000) hours from the following: AGRI, CISE, READ, TEST, or SPED.
10 Select 3 hours from the following: AGRI, AGBU, ACOM, AGET, AGED, ANSC, EQSC, PLSC, or WMGT.

Code	Title	Hours
Concentration: Ag. Industries Electives [8]		
AGED 4364	Methods of Teaching Agriculture Education	3
AGED 4394	Agriculture Education Learning Environments	3
AGRI 4350	Agricultural Biosecurity	3
AGRI 4371	Agricultural Safety & Health	3
CATM 4360	Work-Based Mentorship	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Interdisciplinary Agriculture: Agricultural Industries Concentration is designed to provide graduates with the following marketable skills:

- Apply independent and team-working skills to accomplish objectives and meet deadlines in a variety of agricultural enterprises.
- Analyze situational aspects and engage in critical thinking skills to formulate and implement problem-solving techniques in agricultural enterprises.
- Demonstrate technical knowledge and skills necessary for entry level professionals Agricultural Business, Agricultural Communication, Agricultural Engineering Technology, Animal Science, and Plant and Soil Science.

- Collaborate with agricultural professionals to develop research based educational programs.
- Manage, organize, and conduct youth and adult educational programs.

Bachelor of Science, Major in Plant and Soil Sciences

The Plant and Soil Sciences curriculum provides an educational background to those interested in employment in fields related to production, marketing and/or management of horticultural or agronomic crops; landscape design, installation, and maintenance; and other related businesses. Employment opportunities include, but are not limited to, nursery management, greenhouse plant production, turf management, landscape design and maintenance, floral industry, field crop production or consulting, natural resource conservation programs, chemical and seed production and sales, agricultural extension, and research/teaching.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-plant-and-soil-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Plant and Soil Sciences		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Introduction to Technical Writing	
AGRI 1309	Computers in Agriculture	3
or CSTE 1330	Introduction to Computers	
CHEM 1406	Inorganic & Environmental Chemistry [1]	4
CHEM 1407	Introduction to Organic and Biochemistry [1]	4
COMS 1361	Public Speaking [2]	3
or COMS 2382	Communication for Business & the Professions	
or AGRI 4388	Principles of Agriculture Leadership & Community Development	
MATH or STAT Elective		3
Major: Foundation		
AGRI 4120	Professional Career Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory [3]	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 2395	Ornamental Plant Identification	3
PLSC 3300	Applied Plant Physiology	3
PLSC 3395	Plant Propagation Techniques	3
PLSC 3440	Soil Science	4
Major: Prescribed Electives		
Select 26 advanced hours from the following:		26
AGRI 4096	Independent Studies	
PLSC 3320	Landscape Plant Materials	
PLSC 3374	Controlled Environment Agriculture	
PLSC 3379	Turfgrass Culture	
PLSC 3398	Landscape Design I	
PLSC 4320	Fruit & Vegetable Production	
PLSC 4330	Soil Fertility Management and Fertilizers	
PLSC 4358	Landscape Operations	

PLSC 4368	Landscape Design II	
PLSC 4370	Forage Crops and Pasture Management	
PLSC 4397	Integrated Pest Management	
Select 3 hour elective from: AGBU, AGET, AGRI, ANSC, EQSC, PLSC, or WGMT		3
Minor: Required [4]		
Minor		12
Minor Advanced Hours		6
Total Hours		**120**

1 CHEM 1406 and CHEM 1407 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the degree specific requirement.

2 COMS 1361 or COMS 2382 satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the degree specific requirement. AGRI 4388 does not satisfy this requirement.

3 Or an approved BIOL four semester credit hour elective.

4 The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Plant and Soil Sciences.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-plant-and-soil-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area II (p. 89)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
PLSC 1307 & PLSC 1107	4	AGRI 1309 or CSTE 1330	3
		ANSC 1319 & ANSC 1119[1]	4
	13		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area VII (p. 90)	3
Component Area V (p. 90)	3	Component Area VIII (p. 90)	3
CHEM 1406[2]	4	CHEM 1407[2]	4
MATH or STAT Elective	3	Minor[3]	3
PLSC 2395	3	PLSC 3395	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	PLSC 3300	3
ACOM 3360 or ENGL 3330	3	Major: Prescribed Electives[5]	6
COMS 1361, 2382, or AGRI 4388[4]	3	Minor[3]	6
Major: Prescribed Electives[5]	3		
PLSC 3440	4		
	14		**15**

Fourth Year

Fall	Hours	Spring	Hours
AGBU, AGET, AGRI, ANSC, EQSC, PLSC, or WGMT Elective		3 AGRI 4120	1
Major: Prescribed Electives[5]		6 Major: Prescribed Electives[5]	11
Minor Advanced [3]		6 Minor[3]	3
		15	**15**

Total Hours: 120

1 Or an approved BIOL four semester credit hour elective.
2 CHEM 1406 and CHEM 1407 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the degree specific requirement.
3 The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Plant and Soil Sciences.
4 COMS 1361 or COMS 2382 satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the degree specific requirement. AGRI 4388 does not satisfy this requirement.
5 See Prescribed Electives course list below.

Code	Title	Hours
Major: Prescribed Electives [5]		
Select 26 advanced hours from the following:		
AGRI 4096	Independent Studies	
PLSC 3320	Landscape Plant Materials	
PLSC 3374	Controlled Environment Agriculture	
PLSC 3379	Turfgrass Culture	
PLSC 3398	Landscape Design I	
PLSC 4320	Fruit & Vegetable Production	
PLSC 4330	Soil Fertility Management and Fertilizers	
PLSC 4358	Landscape Operations	
PLSC 4368	Landscape Design II	
PLSC 4370	Forage Crops and Pasture Management	
PLSC 4397	Integrated Pest Management	

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Plant and Soil Sciences is designed to provide graduates with the following marketable skills:

- Recognize soil characteristics for optimum plant growth.
- Evaluate plants of importance in our society and how those plants are utilized.
- Analyze major insect, disease and weed pests, and control strategies.
- Apply independent and team-working skills to accomplish objectives and meet organizational goals.
- Demonstrate a work ethic and soft skills that are desirable of an employee.
- Use professional oral and written communication skills for the transfer of technologically-rich knowledge.

Bachelor of Science, Major in Plant and Soil Sciences with Teaching Certification

Agriculture, Food, and Natural Resources (AFNR) Teacher Certification

The primary emphasis of the teaching certification program is the preparation of secondary teachers of Agricultural, Food, and Natural Resources (AFNR). Students gain a broad background in the agricultural sciences along with professional preparation courses in agricultural education and secondary pedagogy. This comprehensive and diverse background prepares students for a wide variety of professional agricultural careers.

The teaching certification option can be chosen with any of the agricultural emphasis majors as shown. Students seeking teaching certification may double major in Interdisciplinary Agriculture and Secondary Education or major in Agricultural Business, Agricultural Engineering Technology, Animal Science or Plant and Soil Sciences with Teacher Certification.

All students seeking teaching certification must be advised each semester to ensure proper sequencing of classes.

Code	Title	Hours
Bachelor of Science, Major in Plant and Soil Sciences with Teaching Certification		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [3]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction to Computers	
CHEM 1406	Inorganic & Environmental Chemistry [2]	4
or CHEM 1411	General Chemistry I	
CHEM 1407	Introduction to Organic and Biochemistry [2]	4
or CHEM 1412	General Chemistry II	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1324	Mathematics for Managerial Decision Making	
or MATH 1332	College Mathematics	
MATH 1342	Elementary Statistics	3
Major: Foundation		
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2389	Agribusiness Financial Analysis	3
or AGBU 3350	Agribusiness for Agriculture Education Teachers	
AGED 3310	Teaching Agricultural Technology	3
AGED 3320	The Secondary Agriculture Education Program	3
AGED 4388	Secondary Agriculture Education Program Management	3
AGET 2303	Introduction to Agricultural Engineering Technology	3
AGET 4384	Fusing & Joining of Metals & Non-Metals	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Management Techniques	3
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 2395	Ornamental Plant Identification	3

PLSC 2399	Floral Design [3]	3
PLSC 3398	Landscape Design I	3
PLSC 3440	Soil Science	4
PLSC 4370	Forage Crops and Pasture Management	3
or PLSC 3395	Plant Propagation Techniques	
Major: Prescribed Electives		
PLSC Advanced Electives		6
Teaching Certification		
CISE 3384	The Teaching Profession	3
CISE 4364	Methods of Teaching in Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Responsibilities of the Professional Educator	3
READ 4378	Multiple Literacies in Secondary Education	3
AFNR Student Teaching		
AGED 4364	Methods of Teaching Agriculture Education	3
AGED 4365	Student Teaching in Agriculture Education	3
AGED 4366	Student Teaching in Agriculture Education	3
AGED 4394	Agriculture Education Learning Environments	3
Minor: Not Required [5, 6]		
Total Hours		**132**

1 MATH 1314, MATH 1324, and MATH 1332 satisfy the Core Curriculum requirement for Component Area II (Mathematics) as well as the Degree Specific requirement.

2 CHEM 1406 or CHEM 1411 and CHEM 1407 or CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

3 PLSC 2399 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

4 ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Plant and Soil Sciences.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU Education major GPA in all major coursework.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 to earn teacher certification.

First Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	1	AGRI 1309 or CSTE 1330	3
ENGL 1301[1]	3	ANSC 1319 & ANSC 1119	4
HSTY 1301[2]	3	ENGL 1302[1]	3
MATH 1314, 1324, or 1332[3]	3	HSTY 1302[2]	3
PLSC 1307 & PLSC 1107	4	POLS 2305[4]	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
AGET 2303		3 Component Area VIII (p. 90)[7]	3
CHEM 1406 or 1411[5]		4 AGBU 2317	3
MATH 1342		3 CHEM 1407 or 1412[5]	4
PLSC 2395		3 PLSC 3398	3
PLSC 2399[6]		3 POLS 2306[4]	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGBU 2389 or 3350		3 ANSC 3373		3 Component Area IX (p. 91)	3
AGED 3320		3 CISE 4380		3 ACOM 3360	3
AGET 4384		3 PLSC Advanced Elective		3 AGED 3310	3
CISE 3384		3 PLSC 4370 or 3395		3 AGED 4388	3
PLSC 3440		4 READ 4378		3	
	16		**15**		**12**

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 AGED 4364	3
ANSC 4360		3 AGED 4365	3
CISE 4364		3 AGED 4366	3
CISE 4379		3 AGED 4394	3
PLSC Advanced Elective		3	
	15		**12**

Total Hours: 132

1 Satisfies the Core Curriculum requirement for Component Area I (Communication).
2 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
3 MATH 1314, MATH 1324, and MATH 1332 satisfy the Core Curriculum requirement for Component Area II (Mathematics) as well as the Degree Specific requirement.
4 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
5 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
6 Satisfies the Core Curriculum requirement for Component Area V (Creative Arts).
7 ANSC 2360 is recommended and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.75 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.75 minimum SHSU Education major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Plant and Soil Sciences.

Students must earn a "C" or better in all Education coursework.

Students must earn an overall GPA of 2.75 to earn teacher certification.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Plant and Soil Sciences with Teaching Certification is designed to provide graduates with the following marketable skills:

- Recognize soil characteristics for optimum plant growth.
- Evaluate plants of importance in our society and how those plants are utilized.
- Analyze major insect, disease, and weed pests and control strategies.
- Develop entry level technical knowledge and skills required of Agriculture, Food and Natural Resources teachers in Agricultural Communications, Agricultural Business, Agricultural Engineering Technology, Animal Science, and Plant and Soil Science.
- Manage, organize, and conduct Supervised Agricultural Experience Programs, Leadership, Career, and Speaking Development Events.
- Develop annual and long range plans (program of activity, semester, and lesson plans, etc.).
- Use effective research-based techniques to develop a positive classroom environment.
- Create lessons and units of instruction to meet the Texas Essential Knowledge and Skills requirements for Agriculture, Food, and Natural Resources classes.

Minor in Agricultural Business

Agricultural business knowledge is essential for operating any agricultural enterprise in today's economy. While many students may choose to major in another agricultural field, learning business skills through an agricultural business minor is an excellent complement to the technical expertise gained in an agricultural major. The Minor in Agricultural Business may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Agricultural Business		
Agricultural Business Core		
AGBU 2317	Principles of Agricultural Economics	3
AGBU 2385	Analysis of the Agricultural Sector	3
AGBU 2389	Agribusiness Financial Analysis	3
AGRI 1309	Computers in Agriculture	3
Prescribed Electives		
Select nine hours from the following:		9
AGBU 3361	Agribusiness Organization & Management	
AGBU 3367	Agricultural Finance	
AGBU 3385	Quantitative Methods for Agribusiness	
AGBU 4319	Agribusiness Ventures	
AGBU 4340	Agribusiness Marketing	
AGBU 4362	Natural Resource Economics	
AGBU 4363	Agricultural Sales & Consulting	
AGBU 4365	Legal Issues in Agribusiness	
AGBU 4369	Special Topic	
AGBU 4377	Economics of Land Use & Planning	
AGBU 4378	Farm & Ranch Management	
AGBU 4386	Agriculture & Food Policy	
Total Hours		**21**

Minor in Agricultural Engineering Technology

The Minor in Agricultural Engineering Technology may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Agricultural Engineering Technology		
Required Course		
AGET 2303	Introduction to Agricultural Engineering Technology	3
Prescribed Electives		
Agricultural Engineering Technology advanced electives, including 3 hours of internship credit.		15
Total Hours		**18**

Minor in Animal Science

The Minor in Animal Science may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Animal Science		
Animal Science Core		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
ANSC 4389	Animal Reproduction	3
Prescribed Electives		
Animal Science, Equine Science or Wildlife Management Electives (3 hours must be advanced)		9
Total Hours		**19**

Minor in Equine Science

The 18 hour minor in Equine Science may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Equine Science		
Required Courses		
EQSC 2364	Equine Science	3
EQSC 2365	Equine Safety and Handling	3
EQSC 4379	Equine Nutrition	3
Prescribed Electives		
9 hours of Equine Science Electives (6 hours must be advanced)		9
Total Hours		**18**

Minor in Plant and Soil Science

The 20-hour minor in Plant and Soil Science may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Plant and Soil Science		
Required Courses		
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 3440	Soil Science [1]	4
12 hours of Plant Science Electives (6 hours advanced)		12
Total Hours		**20**

[1] PLSC 3440 requires CHEM 1406 or CHEM 1411 as a prerequisite.

Minor in Science

This minor is designed to provide students with the skills needed to understand, apply, analyze, and evaluate ideas and theories pertaining to the natural sciences and the natural world. The Minor in Science may be selected to accompany any major within the School of Agricultural Sciences.

Code	Title	Hours
Minor in Science		
Required Courses		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Prescribed Electives		
Six advanced hours in BIOL, CHEM, GEOL, PHYS, or WMGT		6
Total Hours		**22**

Minor in Wildlife Ecology

Students seeking a Wildlife Ecology minor must complete the following 22 semester credit hours.

Code	Title	Hours
Minor in Wildlife Ecology		
Required Courses		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
ANSC 4389	Animal Reproduction	3
PLSC 4383	Range Management	3
or PLSC 4370	Forage Crops and Pasture Management	
WMGT 2301	Principles of Wildlife Management	3
WMGT 3381	Game Animal Production	3
WMGT 3382	Habitat & Pond Management	3
or WMGT 4341	Upland Game Bird Management	
Total Hours		**22**

Career and Technology Program: Bachelor of Applied Arts and Sciences

Coordinator: Dr. Mark Hainline (msh004@shsu.edu), (936) 294-1186

1. **Present evidence of the development of an area of technical specialty with an Associate of Applied Sciences [AAS] or an Associates of Occupational Studies [AOS], or an Associates of Applied Business [AAB], or an Associates of Specialized Technology [AST] degree from Texas community colleges, junior colleges and trade schools, and most out-of-state community colleges, junior colleges and trade schools are eligible. Approved transferrable AAS, AOS, AAB, and AST degrees programs must be accredited by the U.S. Department of Education Accrediting Commission of Career Schools and Colleges (ACCSC) and/or the Commission of the Council on Occupational Education (COE);**
   a. Sixty-six semester hours (plus four semester hours of activity physical education) may be transferred from another educational institution.
      i. A maximum of 30 hours of academic courses will transfer from a community or junior college; and,
      ii. 36 hours of technical work-force class will transfer in-block.
   b. The specialty title of the AAS, AOS, AAB or AST degree must be posted to the transcript for approval for entry into the BAAS program.
   c. Students MUST be advised by the program coordinator to have transcripts reviewed and a declaration of major/minor submitted before full acceptance into the BAAS program is finalized.
2. **Present evidence of completing a documented National Union apprenticeship and five years of documented work experience; - OR -**
   a. The student will prepare a portfolio including;
      i. National Union apprenticeship documentation; and.
      ii. Proof of five years of documented work experience in the trades; and,
      iii. Three letters of recommendation from former employers or supervisors verifying prior work experiences in the trades.
3. **Present evidence of completion of 2000 or more hours of national, state or business/industry professional development and ten years of documented work experiences.**
   a. The student will prepare a career portfolio including;
      i. Proof of professional development from national, state or business/industry; and,
      ii. Proof of ten years of documented work experience in the trades; and,
      iii. Three letters of recommendation from former employers or supervisors verifying prior work experiences in the trades; and,
      iv. Three letters of recommendation or confirmation that professional development experiences are factual and valid.
4. **Complete a baccalaureate degree plan from residence and transfer credit which contains a minimum of 120 semester credit hours and includes the following:**
   a. Minimum of thirty-six semester hours of advanced level credits (courses taken at the junior-senior [3000-4000] level at a senior institution).
   b. A minor area of study in a field related to the student's technical specialty or meeting a career goal must be selected. Most any minor offered may be selected but if the selected minor does not require twenty-one advanced hours the student must take extra advanced electives to reach the required minimum of 36 advanced hours.
   c. A nine hour internship is required if some type of field experience was not required within the technical program. If the minor department does not offer an internship, the Career and Technology Program will administer an internship or mentorship. This internship or mentorship will be part of the minimum of 36 advanced hour requirement.
   d. A total of minimum of 36 advanced hours (3000-4000 level classes) must be taken. These hours may come in part from the minor and required internship or mentorship. Additional elective hours will be required to complete this requirement.
   e. Complete 42 hours in general education [core], at least 12 hours of core must be taken at Sam Houston State University. Refer to section on core requirements (may include up to 30 hours of core academics from community college courses - see program coordinator for clarification).

- Bachelor of Applied Arts and Sciences (B.A.A.S.) (p. 926)
- Bachelor of Applied Arts and Sciences: Biotechnology Concentration (p. 927)
- Bachelor of Applied Arts and Sciences: Criminal Justice Concentration (p. 930)
- Bachelor of Applied Arts and Sciences: General Business Concentration (p. 932)

Bachelor of Applied Arts and Sciences

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-applied-arts-and-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Bachelor of Applied Arts and Sciences (B.A.A.S.)

Code	Title	Hours
Requirements		
General Education Requirements (Core Curriculum)		42
Major (A.A.S. degree - in-block transfer courses) [1]		36
Minor: Required [2]		
Minor (21 advanced hours)		21
Electives (12 advanced hours)		12
Internship (if required) (CATM 4360 or in minor field) or Additional Advanced Electives		9
Total Hours		**120**

1. A maximum of 66 semester credit hours are transferable. Additional hours may be needed to meet the total 120 SCH requirement. For more detailed information concerning General Education, Major, requirements, and transferrable courses, please visit Career and Technology Program. (p. 925)
2. The following minors cannot be paired with this degree program: Minor in Conservation Biology, Minor in Early Childhood Education and Minor in Wildlife Ecology.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

Internships or Work-Based Mentorship

An internship or work-based mentorship in career and technology is intended to provide experience-based learning opportunities for students in their respective discipline of study. These internships are limited to students seeking a BAAS degree or for students with special approval. Students generally seek an internship or work-based mentorship experience at the end of their sophomore or junior year. The course identified for internship or work-based mentorship is CATM 4360 (or minor field internship) and may be arranged through student contact with providers or through departmental faculty, staff announcements, or career services postings. All internships or work-based mentorships must receive prior departmental approval. Maximum credit for internship or work-based mentorship is nine (9) credit hours, with no more than three (3) hours to be taken per semester.

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The BAAS is designed to provide graduates with the following marketable skills:

- Apply independent and team-working skills to accomplish objectives and meet deadlines in a variety of business settings.
- Demonstrate a work ethic and soft skills that are desirable of an employee.
- Analyze situational aspects and engage in critical thinking skills to formulate and implement problem-solving techniques in agricultural management.
- Organize human, physical, and financial resources.
- Effectively communicate factual information, logically and concisely, orally as well as in written professional formats.

Bachelor of Applied Arts and Sciences: Biotechnology Concentration

Code	Title	Hours
Requirements		
General Education Requirements (Core Curriculum/Degree Specific Requirements)		42
Major (A.A.S. degree - in-block transfer courses) [1]		36
Concentration: Biotechnology		
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4110	Undergraduate Seminar	1
or BIOL 4111	Undergraduate Seminar	
BIOL 4381	Advanced Molecular Biology	3
BIOL 4480	Molecular Genetics	4
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
Advanced BIOL Electives [3]		20
Total Hours		**122**

1. A maximum of 66 semester credit hours are transferable. Additional hours may be needed to meet the total 122 SCH requirement. Students may transfer up to 36 SCH of WECM coursework from their A.A.S. degree. For more detailed information concerning General Education, Major, requirements, and transferable courses, please visit Career and Technology Program (p. 925).
2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).
3. Select five courses from the Advanced BIOL Electives course listing below.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

Code	Title	Hours
Advanced BIOL Electives [3]		
Select five courses from the following:		20
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4460	Parasitology	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	

First Year

Fall	Hours	Spring	Hours
Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	15	Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	15
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	18	Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	18
	18		**18**

Third Year

Fall	Hours	Spring	Hours
Advanced BIOL Electives[2]	4	Advanced BIOL Electives[2]	4
BIOL 2440	4	BIOL 3450	4
CHEM 1411[3]	4	BIOL 3470	4
General Education (As needed)	4	CHEM 1412[3]	4
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
Advanced BIOL Electives[2]	4	Advanced BIOL Electives[2]	8
BIOL 4110 or 4111	1	BIOL 4480	4
BIOL 4381	3		
CHEM 2323 & CHEM 2123	4		
	12		**12**

Total Hours: 122

1 A maximum of 66 semester credit hours are transferable. Additional hours may be needed to meet the total 122 SCH requirement. Students may transfer up to 36 SCH of WECM coursework from their A.A.S. degree. For more detailed information concerning General Education, Major, requirements, and transferable courses, please visit Career and Technology Program (p. 925).

2 Select five courses from the Advanced BIOL Electives course listing below.

3 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

Code	Title	Hours
Advanced BIOL Electives [2]		
Select five courses from the following:		20
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	

BIOL 4460	Parasitology
BIOL 4490	Cell Biology
BIOL 4493	Endocrinology

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BAAS: Biotechnology Concentration is designed to provide graduates with the following marketable skills:

- Master the depth of knowledge required for a degree in biotechnology.
- Demonstrate critical thinking.
- Communicate effectively.
- Work collaboratively.

Bachelor of Applied Arts and Sciences: Criminal Justice Concentration

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-applied-arts-and-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Bachelor of Applied Arts and Sciences: Criminal Justice Concentration

Code	Title	Hours
Requirements		
General Education Requirements (Core Curriculum/Degree Specific Requirements)		42
Major (A.A.S. degree - in-block transfer courses) [1]		36
Concentration: Criminal Justice [2]		
CRIJ 2361	Introduction To The Criminal Justice System [3]	3
CRIJ 2362	Criminology [2]	3
CRIJ 2364	Fundamentals Of Criminal Law [2]	3
CRIJ 3378	Introduction To Methods Of Research	3
CRIJ 4385	Criminal Justice and Social Diversity	3
VCST 3350	Victimology	3
Advanced CRIJ Electives (can include CATM 4360)		33
Total Hours		**120**

1. A maximum of 66 semester credit hours are transferable. Additional hours may be needed to meet the total 120 SCH requirement. For more detailed information concerning General Education, Major, requirements, and transferrable courses, please visit Career and Technology Program. (p. 925)
2. The total hours reflect the inclusion of two lower-division courses -- CRIJ 2362 and CRIJ 2364 -- in the Criminal Justice Concentration. If the student does not have prior credit for CRIJ 2362 and CRIJ 2364, the total hours increase to 126.
3. CRIJ 2361 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavior Science).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

Internships or Work-Based Mentorship

An internship or work-based mentorship in career and technology is intended to provide experience-based learning opportunities for students in their respective discipline of study. These internships are limited to students seeking a BAAS degree or for students with special approval. Students generally seek an internship or work-based mentorship experience at the end of their sophomore or junior year. The course identified for internship or work-based mentorship is CATM 4360 (or minor field internship) and may be arranged through student contact with providers or through departmental faculty, staff announcements, or career services postings. All internships or work-based mentorships must receive prior departmental approval. Maximum credit for internship or work-based mentorship is nine (9) credit hours, with no more than three (3) hours to be taken per semester.

First Year

Fall	Hours	Spring	Hours
Core Curriculum and/or Major (A.A.S. degree in-block transferred courses[1]	15	Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	15
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Core Curriculum and/or Major (A.A.S. degree in-block transferred courses[1]	18	Core Curriculum and/or Major (A.A.S. degree in-block transferred courses[1]	18
	18		**18**

Third Year

Fall	Hours	Spring	Hours
Advanced CRIJ Elective		3 Advanced CRIJ Electives	15
CRIJ 2361[2]		3 General Education (As needed)	3
CRIJ 2362[3]		3	
CRIJ 2364[3]		3	
VCST 3350		3	
	15		**18**

Fourth Year

Fall	Hours	Spring	Hours
Advanced CRIJ Electives		6 Advanced Electives from CRIJ or CATM	9
CRIJ 3378		3	
CRIJ 4385		3	
	12		**9**

Total Hours: 120

1 A maximum of 66 semester credit hours are transferable. Additional hours may be needed to meet the total 120 SCH requirement. For more detailed information concerning General Education, Major, requirements, and transferrable courses, please visit Career and Technology Program. (p. 925)

2 CRIJ 2361 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavior Science).

3 The total hours reflect the inclusion of two lower-division courses -- CRIJ 2362 and CRIJ 2364 -- in the Criminal Justice Concentration. If the student does not have prior credit for CRIJ 2362 and CRIJ 2364, the total hours increase to 126.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BAAS: Criminal Justice Concentration is designed to provide graduates with the following marketable skills:

- Apply independent and team-working skills to accomplish objectives and meet deadlines in a variety of business settings.
- Demonstrate a work ethic and soft skills that are desirable of an employee.
- Analyze situational aspects and engage in critical thinking skills to formulate and implement problem-solving techniques in agricultural management.
- Organize human, physical, and financial resources.
- Effectively communicate factual information, logically and concisely, orally as well as in written professional formats.

Bachelor of Applied Arts and Sciences: General Business Concentration

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-applied-arts-and-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Bachelor of Applied Arts and Sciences: General Business Concentration

Code	Title	Hours
Requirements		
General Education Requirements (Core Curriculum/Degree Specific Requirements)		42
Major (A.A.S. degree - in-block transfer courses) [1]		36
Concentration: General Business		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
BANA 2372	Business Analysis [2]	3
or MATH 3379	Statistical Methods in Practice	
or STAT 3379	Statistical Methods in Practice	
BANA 3363	Inter Business Analysis	3
BUAD 3301	Business Legal Environment	3
BUAD 3335	Business Communication	3
BUAD 3355	Business Law	3
ECON 2300	Introduction To Economics [3]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
FINC 3310	Financial Institutions and Markets	3
FINC 3320	Business Finance	3
FINC 3330	Financial Spreadsheet Modeling	3
MATH 1324	Mathematics for Managerial Decision Making [4]	3
MGMT 3310	Principles Of Management	3
MKTG 3310	Principles Of Marketing	3
SCMG 3370	Operations Management	3
Advanced General Business Electives (can include CATM 4360) [5]		3
Total Hours		**120**

1. A maximum of 66 semester credit hours are transferable. Additional hours may be needed to meet the total 120 SCH requirement. For more detailed information concerning General Education, Major, requirements, and transferrable courses, please visit Career and Technology Program. (p. 925)
2. Students transferring in or choosing BANA 2372 as a course option will need three additional hours of advanced credit.
3. ECON 2300, ECON 2301, or ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4. MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
5. Any course at the 3000 or 4000 level with a prefix from the College of Business Administration or CATM 4360.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

Internships or Work-Based Mentorship

An internship or work-based mentorship in career and technology is intended to provide experience-based learning opportunities for students in their respective discipline of study. These internships are limited to students seeking a BAAS degree or for students with special approval. Students generally seek an internship or work-based mentorship experience at the end of their sophomore or junior year. The course identified for internship or

work-based mentorship is CATM 4360 (or minor field internship) and may be arranged through student contact with providers or through departmental faculty, staff announcements, or career services postings. All internships or work-based mentorships must receive prior departmental approval. Maximum credit for internship or work-based mentorship is nine (9) credit hours, with no more than three (3) hours to be taken per semester.

First Year

Fall	Hours	Spring	Hours
Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	15	Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	15
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	18	Core Curriculum and/or Major (A.A.S. degree in-block transferred courses)[1]	18
	18		**18**

Third Year

Fall	Hours	Spring	Hours
General Education (As needed)	3	General Education (As needed)	3
ACCT 2301	3	ACCT 2302	3
ECON 2300, 2301, or 2302[2]	3	BANA 2372, MATH 3379, or STAT 3379[4]	3
MATH 1324[3]	3	BUAD 3301	3
MGMT 3310	3	MKTG 3310	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
BANA 3363	3	Advanced Business Elective or CATM 4360[5]	3
BUAD 3355	3	BUAD 3335	3
FINC 3320	3	FINC 3310	3
SCMG 3370	3	FINC 3330	3
	12		**12**

Total Hours: 120

1 A maximum of 66 semester credit hours are transferable. Additional hours may be needed to meet the total 120 SCH requirement. For more detailed information concerning General Education, Major, requirements, and transferable courses, please visit Career and Technology Program (p. 925).

2 ECON 2300, ECON 2301, or ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).

4 Students transferring in or choosing BANA 2372 as a course option will need three additional hours of advanced credit.

5 Any course at the 3000 or 4000 level with a prefix from the College of Business Administration or CATM 4360.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BAAS: General Business Concentration is designed to provide graduates with the following marketable skills:

- Financial literacy.
- Professional communication appropriate to a corporate environment.
- Quantitative/analytical skills as applied to the decision-making process of a firm.

Department of Biological Sciences

Chair: Aaron Lynne (aml027@shsu.edu) (936) 294-1544

Website: Department of Biological Sciences (http://www.shsu.edu/academics/biological-sciences/)

Mission

The Department of Biological Sciences is dedicated to the pursuit and dissemination of knowledge and scientific discovery in the life sciences through innovative teaching and research programs. The department strives to instill in its students the philosophy of lifelong scholarship, producing scientifically literate members of society who have the knowledge to contribute and compete in a rapidly changing world.

Academic Programs

Biology, the study of living things, is an exciting and dynamic field that offers many areas of focus. Students may choose to study how life functions at the molecular, cellular, organismal, or ecological levels. The biological sciences provide opportunities to study viruses, bacteria, fungi, plants, and animals and to investigate the biochemical, physiological, morphological, anatomical, behavioral, ecological, and evolutionary processes that make each organism unique.

Highlights

The Department of Biological Sciences is located in the Life Sciences Building, which houses the following teaching and research capabilities:

- microscopy (scanning electron microscopy, transmission electron microscopy, and confocal microscopy)
- molecular biology
- microbiology
- morphology

The department operates the Pineywoods Environmental Research Laboratory (PERL) , a 250-acre field station within 5 miles of campus that is dedicated to biological and environmental research and teaching. Additionally, the department is affiliated with the Sam Houston State University Natural History Collections.

Curriculum

Major in Biology

The Bachelor of Arts or Bachelor of Science in Biology are ideal degrees for students interested in gaining a broad background in the biological sciences, while allowing flexibility to focus on a specific biology sub-discipline. All students majoring in biology will develop competence in the fundamental principles of biology and will gain experience in botany, zoology, cellular biology, microbiology, genetics, ecology and evolution. Students take an active role in creating a degree plan that best meets their interests and their career goals by choosing one out of four concentrations. Most students pursue careers in terrestrial ecology, animal physiology, animal behavior, medical professions, biotechnology, or teacher education.

Required Courses for the Major

The biology major may choose from two degree programs, the Bachelor of Arts or Bachelor of Science. All majors must complete the following core courses:

Code	Title	Hours
Required Courses		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2110	Being a Professional Biologist	1
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 4110	Undergraduate Seminar	1
or BIOL 4111	Undergraduate Seminar	
BIOL 4361	Evolutionary Biology	3
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
or MATH 3379	Statistical Methods in Practice	
or STAT 3379	Statistical Methods in Practice	
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4

CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
PHYS 1301	General Physics-Mechanics and Heat	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1302	General Physics-Sound, Light, Electricity, and Magnetism	3
PHYS 1102	General Physics Laboratory II	1
Total Hours		**49**

Major in Biomedical Sciences

The Biomedical Sciences degree offered by the Department of Biological Sciences provides a robust, yet flexible curriculum with an emphasis on studying the biological basis of health and disease. All students majoring in Biomedical Sciences will develop competence in the fundamental principles of biology and will gain experience in basic biology, cellular biology, microbiology, genetics, chemistry, mathematics and evolution. The Biomedical Sciences degree is designed to thoroughly prepare students for entrance into medical, dental, pharmacy, physician assistant, and other professional schools, as well as graduate study in the biomedical sciences, and employment as a laboratory research assistant. No minor is required for the degree.

Required Courses for the Major

All Biomedical Sciences majors must complete the following core courses:

Code	Title	Hours
Course Requirements		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4110	Undergraduate Seminar	1
or BIOL 4111	Undergraduate Seminar	
BIOL 4361	Evolutionary Biology	3
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 3438	Biochemistry I	4
MATH 1420	Calculus I	4
PHYS 1301	General Physics-Mechanics and Heat	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1302	General Physics-Sound, Light, Electricity, and Magnetism	3
PHYS 1102	General Physics Laboratory II	1
Total Hours		**56**

- Bachelor of Applied Arts and Sciences: Biotechnology Concentration (p. 927)
- Bachelor of Arts, Major in Biology (p. 940)
- Bachelor of Science, Major in Biology (p. 950)
- Bachelor of Science, Major in Biomedical Sciences (p. 959)
- Minor in Biology (p. 963)
- Minor in Conservation Biology (p. 964)

Student Organizations

- Beta Beta Beta (TriBeta) (https://shsu.collegiatelink.net/organization/TriBeta/) is an undergraduate national Biological Honor society. The organization was founded in 1922 and the Delta Tau chapter at SHSU was chartered in 1965. TriBeta is dedicated to advancing the understanding and appreciation of the biological sciences and encouraging/supporting undergraduate student scientific research. TriBeta membership requires:
  - a declared major in Biology or Biomedical Sciences; and
  - a dedicated interest in the life sciences (associate member) or completion of at least one 3000- or 4000-level biology course with a BIO GPA of 3.0 and overall SHSU GPA of 2.75 (regular member).

Membership invitations are sent to eligible students each fall and spring semester. (jmh091@shsu.edu)Dr. Diane Neudorf (BIO_DLN@shsu.edu) serves as faculty advisor to TriBeta.

- Sam Houston Association of Medical Oriented Students (SHAMOS) (http://www.shsu.edu/~org_shamos/) membership is available to any student interested in pursuing a career in the medical or health professions. Activities include fundraisers, community service projects, blood drives with the Gulf Coast Regional Blood Center, and canned food drives. SHAMOS sponsors an outside speaker program to inform students of the opportunities and benefits of the various disciplines of the health professions (e.g., general and specialist dentistry, general and specialist medicine, occupational therapy, physician assistant, podiatry, forensic pathology, and EMS). Dr. Aaron Lynne (aaronlynne@shsu.edu) (bio_arg@shsu.edu)serves as faculty advisor to SHAMOS.

Internships and Undergraduate Research

The Department of Biological Sciences believes that "hands on" experiences, through either internships or faculty-directed undergraduate research projects, are an important complement to a student's formal coursework. Moreover, undergraduate research experience is critical for students applying to graduate programs or professional schools. We therefore strongly encourage Biology students to consider participating in an undergraduate research project. Students seeking information regarding internships and/or undergraduate research experiences should contact the Department Chair Dr. Aaron Lynne (aaronlynne@shsu.edu). Individual faculty members may be contacted for details regarding their research programs and independent research possibilities.

Academic Distinction

Graduation with “Academic Distinction in Biological Sciences” is available at SHSU. This honor is recognized at the commencement ceremony, posted to the diploma, and to the academic transcript. Requirements for earning Academic Distinction are:

1) Students must maintain a GPA in their major of 3.50 or above and overall GPA of 3.25 or above to be eligible for Academic Distinction.

2). Students must complete six hours in the Academic Distinction program by taking in sequence Senior Thesis I (BIOL 4398) and Senior Thesis II (BIOL 4399). These credits, by University rule, cannot count towards any requirement in the degree plan, i.e. they must be in addition to normal graduation requirements.

2) Before a student enrolls in BIOL 4398 and declares an intention to earn Academic Distinction, the student must obtain written permission from the Department Chair, the Director of the Honors College, and the Academic Dean (Dean of Science and Engineering Technology).

If you are interested in the Academic Distinction program, please contact the Department Chair.

Scholarships

Academic scholarships are available from both the Department of Biological Sciences and the University to support student studies.

The Department of Biological Sciences scholarships include:

- Biology & Environmental Science Academic Scholarship
- Emma Normand Academic Scholarship
- Everett Wilson Biology Endowment
- Harold F. Foerster Scholarship Endowment
- James D. Long Biology Endowment
- James Patrick Weber Environmental Science Award
- Patrick Neil O'Bryant Academic Scholarship
- Roy Turner Scholarship Endowment
- S.R. Warner Academic Scholarship
- William (Bill) R. Brinkley Scholarship Endowment
- Wilson-Warner Endowed Scholarship in the Biological Sciences
- Dr. James R. DeShaw Endowed Scholarship
- Christopher M. Wilson Memorial Endowed Scholarship

- Gregory E. and Mary Kay Crouch Endowed Scholarship
- G. Scott and Mary S. McCarley Endowed Scholarship

Information concerning Biology and University scholarships may be obtained by visiting Scholarship 4 Kats (https://shsu.academicworks.com/).

Director/Chair: **Aaron Matthew Lynne**

Mardelle Renee Atkins, PHD (mra043@shsu.edu), *Roland Black Endowed Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Sibyl Rae Bucheli, PHD (srb009@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Ohio State University; MS, Ohio State University; BA, Hiram College

Cesar Enoc Cantu, BS (cec074@shsu.edu), *Visiting Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, BS, Sam Houston State University

Madhusudan Choudhary, PHD (mxc017@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, McMaster University; BSC, Patna University

Jerry L. Cook, PHD (bio_jlc@shsu.edu), *Distinguished Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Colorado State Univ-Pueblo; BS, Colorado State Univ-Pueblo

Tamara J. Cook, PHD (bio_tjc@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Univ of Nebraska-Lincoln; BS, Univ of Nebraska-Lincoln

Sarah Leslie Couch, MS (stdslk23@shsu.edu), *Senior Lecturer of Biological Sciences*, *Department of Biological Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Juan D Daza Vaca, PHD (jdd054@shsu.edu), *Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Puerto Rico-Rio Piedra; MS, Univ of Puerto Rico-Rio Piedra; BS, Universidad del Valle

Jill Sayes Dewey, PHD (jsd043@shsu.edu), *Assistant Professor of Practice in Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; BS, LSU & A&M College

Anne R Gaillard, PHD (bio_arg@shsu.edu), *Adjunct Faculty; Vice Provost*, *Department of Biological Sciences*, PHD, Emory University; BS, Purdue University

Danielle Marie Goodspeed, PHD (dmg048@shsu.edu), *Visiting Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Rice University; MS, Rice University; BS, Roger Williams University; BS, Roger Williams University

James Michael Harper, PHD (jmharper@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Idaho; BS, Suny College At Geneseo

Sharmin Hasan, PHD (sxh130@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Tokyo; MS, Univ of Tokyo; BSC, Univ of Rajshahi

Joan E.N. Hudson, PHD (bio_jxn@shsu.edu), *Associate Professor of Biology*, *Department of Biological Sciences*, PHD, Iowa State University; MS, Texas A&M University; BS, Texas A&M University

Anand Bahadur Karki, PHD (abk019@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, University of Tulsa; MS, Tribhuvan University; BS, Tribhuvan University

Steven David Koether, PHD (stevenkoether@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Patrick J Lewis, PHD (pjl001@shsu.edu), *Professor of Biology, Associate Dean of Honors College*, *Department of Biological Sciences*, PHD, Duke University; MS, Texas Tech University; BA, Texas Tech University

William I Lutterschmidt, PHD (bio_wil@shsu.edu), *Distinguished Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Oklahoma-Norman; MS, Southeastern Louisiana Univ.; BS, De Sales University

Aaron Matthew Lynne, PHD (aml027@shsu.edu), *Professor and Chair of Biological Sciences*, *Department of Biological Sciences*, PHD, North Dakota State University; BS, North Dakota State University

Volha Minich, MS (vxm050@shsu.edu), *Senior Lecturer of Biological Sciences*, *Department of Biological Sciences*, MS, Stephen F Austin University; BS, Belarusian State University

Diane L. Neudorf, PHD (bio_dln@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, York University; MSC, University of Manitoba; BSC, University of Manitoba

John B Pascarella, PHD (jbp014@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Miami; BA, Univ of Kansas; BS, Univ of Kansas; BS, Univ of Kansas

Todd P Primm, PHD (tprimm@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Christopher P Randle, PHD (cpr003@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Ohio State University; BA, Hiram College

Monte L. Thies, PHD (bio_mlt@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Oklahoma State University; MS, Univ of Central Oklahoma; BS, Univ of Central Oklahoma

Justin K. Williams, PHD (bio_jkw@shsu.edu), *Professor of Biology and Assistant Dean, Honors College*, *Department of Biological Sciences*, PHD, Univ of Texas At Austin; BA, Univ of Texas At Austin

Jeffrey R Wozniak, PHD (jrw034@shsu.edu), *Associate Professor of Biology*, *Department of Biological Sciences*, PHD, Florida Int'L Univ; BS, Allegheny College

Bachelor of Arts, Major in Biology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-biology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Biology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) (Courses for Science Majors) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1, 3]		4
Degree Specific Requirements		
Select one of the following:		3
BIOL 4374	Biostatistics	
MATH 3379	Statistical Methods in Practice	
STAT 3379	Statistical Methods in Practice	
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
MATH 1410	Elementary Functions [1]	4
WOLC 1411	Beginning Foreign Language I	4
WOLC 1412	Beginning Foreign Language II (same field)	4
WOLC 2311	Intermediate Foreign Language [3]	3
WOLC 2312	Intermediate Foreign Language II (same field) [3]	3
Major: Foundation		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2110	Being a Professional Biologist	1
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 4110	Undergraduate Seminar	1
or BIOL 4111	Undergraduate Seminar	
BIOL 4361	Evolutionary Biology	3
Major: Prescribed Electives		
BIOL Advanced Electives (3000-4000 level courses)		4
Major: Concentration [4]		**39-58**
Minor: Not Required [5, 6]		
Total Hours		**120-139**

1. Satisfies 3 hours of the Core Curriculum requirement for Component Area II (Mathematics) and 1 hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
2. Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Sciences).
3. WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and Component Area IX (Component Area Option).
4. See Concentration course listings below.
5. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
6. All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This total reflects MATH 1410 satisfying Component Area II (Mathematics) and one hour of Component Area IX (Component Area Option), and CHEM 1411 and CHEM 1412 satisfying Component Area III (Life and Physical Sciences).

Code	Title	Hours
Major: Concentration (Integrative Biology) [4]		
BIOL 3409	General Ecology	4
BIOL 3470	General Microbiology	4
Select from the following:		34-35
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4480	Molecular Genetics	
BIOL 4481	Physiological Ecology	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	

CHEM 2325	Organic Chemistry II: Lecture	
Total Hours		**42-43**

Code	Title	Hours
Major: Concentration (Cell and Molecular) [4]		
BIOL 3470	General Microbiology	4
BIOL 4480	Molecular Genetics	4
or BIOL 4490	Cell Biology	
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3339	Biochemistry II	3
CHEM 3438	Biochemistry I	4
Select five courses from the following (3 must be 4-credit courses):		18-20
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Genetics	
or BIOL 4490	Cell Biology	
BIOL 4481	Physiological Ecology	
BIOL 4493	Endocrinology	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	

BIOL 4471	Invertebrate Zoology	
Total Hours		**47-51**

Code	Title	Hours
Major: Concentration (Environmental, Evolutionary, and Organismal Biology) [4]		
BIOL 3409	General Ecology	4
Select eight from the following (5 must be 4-credit hour courses):		32
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
BIOL 4460	Parasitology	
BIOL 4471	Invertebrate Zoology	
BIOL 4481	Physiological Ecology	
Select one from the following:		3-4
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Total Hours		**39-40**

Code	Title	Hours
Major: Concentration (Forensic Biology) [4]		
BIOL 2441	Forensic Biology Concepts	4
BIOL 3470	General Microbiology	4
BIOL 4380	Medical Microbiology	3
BIOL 4381	Advanced Molecular Biology	3

BIOL 4410	General Entomology	4
BIOL 4480	Molecular Genetics	4
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3438	Biochemistry I	4
FORS 3366	Forensic Science	3
FORS 4317	Applied Statistics for Forensic Science	3
FORS 4320	Fundamentals of Forensic Biology	3
FORS 4380	Ethics and Professional Practice	3
Select one from the following:		3-4
BIOL 3410	Human Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4481	Physiological Ecology	
BIOL 4490	Cell Biology	
CHEM 3339	Biochemistry II	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4394	Biological Sciences Internship	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4493	Endocrinology	
Total Hours		**55-58**

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-biology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 1406 or 1407	4	BIOL 1407 or 1406	4
CHEM 1411[1]	4	CHEM 1412[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
MATH 1410[3]	4		
	15		**11**

Second Year

Fall	Hours	Spring	Hours
BIOL 2440	4	Component Area V (p. 90)	3
BIOL 4374, MATH 3379, or STAT 3379	3	Component Area IX (p. 91)	3
HSTY 1301[4]	3	BIOL 2110	1
WOLC 1411 & WOLC 1412	8	BIOL 3450	4
		HSTY 1302[4]	3
		POLS 2305[5]	3
	18		**17**

Third Year

Fall	Hours	Spring	Hours
Concentration [6]	8-16	Component Area VIII (p. 90)	3
BIOL 4361	3	BIOL 4110 or 4111	1
POLS 2306[5]	3	Concentration[6]	3-8
		WOLC 2311 & WOLC 2312[7]	6
	14-22		**13-18**

Fourth Year

Fall	Hours	Spring	Hours
BIOL 3470	4	Concentration[6]	12-15
BIOL Prescribed Electives	3	BIOL Prescribed Electives	4
Concentration[6]	9-12		
	16-19		**16-19**

Total Hours: 120-139

1. Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Sciences).
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies 3 hours of the Core Curriculum requirement for Component Area II (Mathematics) and 1 hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6. See Concentration course listings below.
7. WOLC 2311 or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and Component Area IX (Component Area Option).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

This total reflects MATH 1410 satisfying Component Area II (Mathematics) and one hour of Component Area IX (Component Area Option), and CHEM 1411 and CHEM 1412 satisfying Component Area III (Life and Physical Sciences).

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Code	Title	Hours
Major: Concentration (Integrative Biology) [6]		
BIOL 3409	General Ecology	4
BIOL 3470	General Microbiology	4
Select from the following:		34-35
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4480	Molecular Genetics	
BIOL 4481	Physiological Ecology	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
CHEM 2325	Organic Chemistry II: Lecture	
Total Hours		**42-43**

Code	Title	Hours
Major: Concentration (Cell and Molecular) [6]		
BIOL 3470	General Microbiology	4
BIOL 4480	Molecular Genetics	4
or BIOL 4490	Cell Biology	

CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3339	Biochemistry II	3
CHEM 3438	Biochemistry I	4
Select five courses from the following (3 must be 4-credit hour courses):		18-20
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Genetics	
or BIOL 4490	Cell Biology	
BIOL 4481	Physiological Ecology	
BIOL 4493	Endocrinology	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
Total Hours		**47-51**

Code	Title	Hours
Major: Concentration (Environmental, Evolutionary, and Organismal Biology) [6]		
BIOL 3409	General Ecology	4
Select eight from the following (5 must be 4-credit hour courses):		32
BIOL 2411	General Botany	

BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
BIOL 4460	Parasitology	
BIOL 4471	Invertebrate Zoology	
BIOL 4481	Physiological Ecology	
Select one from the following:		3-4
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Total Hours		**39-40**

Code	Title	Hours
Major: Concentration (Forensic Biology) [6]		
BIOL 2441	Forensic Biology Concepts	4
BIOL 3470	General Microbiology	4
BIOL 4380	Medical Microbiology	3
BIOL 4381	Advanced Molecular Biology	3
BIOL 4410	General Entomology	4
BIOL 4480	Molecular Genetics	4
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3438	Biochemistry I	4

FORS 3366	Forensic Science	3
FORS 4317	Applied Statistics for Forensic Science	3
FORS 4320	Fundamentals of Forensic Biology	3
FORS 4380	Ethics and Professional Practice	3
Select one from the following:		3-4
BIOL 3410	Human Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4481	Physiological Ecology	
BIOL 4490	Cell Biology	
CHEM 3339	Biochemistry II	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4394	Biological Sciences Internship	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4493	Endocrinology	
Total Hours		**55-58**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Biology is designed to provide graduates with the following marketable skills:

- Master the depth of knowledge required for a degree in biological sciences.
- Demonstrate critical thinking.
- Communicate effectively.
- Work collaboratively.

Bachelor of Science, Major in Biology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-biology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Biology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) (Courses for Science Majors) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	3-4
or MATH 3379	Statistical Methods in Practice	
or STAT 3379	Statistical Methods in Practice	
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2110	Being a Professional Biologist	1
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 4110	Undergraduate Seminar	1
or BIOL 4111	Undergraduate Seminar	
BIOL 4361	Evolutionary Biology	3
Major: Prescribed Electives		
BIOL Advanced Electives (3000-4000 level courses)		6
Major: Concentration [3]		**36-47**
Minor: Not Required [4, 5]		
Total Hours		**120-132**

1. MATH 1420 fulfills the Core Curriculum requirement for Component Area II (Mathematics), and 1 hour will apply to Component Area IX (Component Area Option). It also satisfies the prerequisite requirement for MATH 1430. If MATH 1420 is not taken, additional hours may be needed to fulfill degree program requirements.
2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).
3. See Concentration course listings below.
4. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.
5. All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Code	Title	Hours
Major: Concentration (Integrative Biology) [3]		
BIOL 3409	General Ecology	4
BIOL 3470	General Microbiology	4
Select from the following:		28-29
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 2441	Forensic Biology Concepts	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4480	Molecular Genetics	
BIOL 4481	Physiological Ecology	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
CHEM 2325	Organic Chemistry II: Lecture	
Total Hours		**36-37**

Code	Title	Hours
Major: Concentration (Cell and Molecular) [3]		
BIOL 3470	General Microbiology	4
BIOL 4480	Molecular Genetics	4
or BIOL 4490	Cell Biology	
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3339	Biochemistry II	3
CHEM 3438	Biochemistry I	4
Select five courses from the following (3 must be 4-credit courses):		18-20
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Genetics	
or BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3409	General Ecology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
Total Hours		**43-47**

Code	Title	Hours
Major: Concentration (Environmental, Evolutionary, and Organismal Biology) [3]		
BIOL 3409	General Ecology	4
Select eight from the following (5 must be 4-credit hour courses):		29
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4481	Physiological Ecology	
Select two from the following:		6-8
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Total Hours		**39-41**

Code	Title	Hours
Major: Concentration (Forensic Biology) [3]		
BIOL 2441	Forensic Biology Concepts	4
BIOL 3470	General Microbiology	4
BIOL 4380	Medical Microbiology	3
BIOL 4410	General Entomology	4
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3438	Biochemistry I	4
FORS 3366	Forensic Science	3

FORS 4317	Applied Statistics for Forensic Science	3
FORS 4320	Fundamentals of Forensic Biology	3
FORS 4380	Ethics and Professional Practice	3
Select one from the following:		3-4
BIOL 3410	Human Biology	
BIOL 3440	General Physiology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
CHEM 3339	Biochemistry II	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3460	Pathophysiology	
BIOL 3461	Wildlife Biology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4362	Paleobiology	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4370	Microbial Ecology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4480	Molecular Genetics	
BIOL 4481	Physiological Ecology	
BIOL 4493	Endocrinology	
Total Hours		**43-46**

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-biology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 1406 or 1407		4 Component Area IV (p. 89)	
CHEM 1411[1]		4 BIOL 1407 or 1406	4
ENGL 1301[2]		3 CHEM 1412[1]	4

MATH 1420[3]	4	ENGL 1302[2]	3
	15		**11**

Second Year

Fall	Hours	Spring	Hours
BIOL 2440	4	Component Area V (p. 90)	3
CHEM 2323 & CHEM 2123	4	Component Area IX (p. 91)	3
HSTY 1301[4]	3	BIOL 2110	1
MATH 1430, 3379, or STAT 3379	3-4	BIOL 3450	4
PHYS 1301 & PHYS 1101	4	HSTY 1302[4]	3
		POLS 2305[5]	3
	18-19		**17**

Third Year

Fall	Hours	Spring	Hours
BIOL 4361	3	Component Area VIII (p. 90)	3
Concentration[6]	6-7	BIOL Advanced Electives (3000-4000 level courses)	6
POLS 2306[5]	3	BIOL 4110 or 4111	1
		Concentration[6]	6
		PHYS 1302 & PHYS 1102	4
	12-13		**20**

Fourth Year

Fall	Hours	Spring	Hours
Concentration[6]	11-17	Concentration[6]	13-17
	11-17		**13-17**

Total Hours: 117-129

1. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. MATH 1420 fulfills the Core Curriculum requirement for Component Area II (Mathematics), and 1 hour will apply to Component Area IX (Component Area Option). It also satisfies the prerequisite requirement for MATH 1430. If MATH 1420 is not taken, additional hours may be needed to fulfill degree program requirements.
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6. See Concentration course listings below.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

Code	Title	Hours
Major: Concentration (Integrative Biology) [6]		
BIOL 3409	General Ecology	4
BIOL 3470	General Microbiology	4
Select from the following:		28-29
BIOL 2411	General Botany	

BIOL 2413	General Zoology
BIOL 2441	Forensic Biology Concepts
BIOL 3364	Plant Taxonomy
BIOL 3410	Human Biology
BIOL 3420	Comparative Vertebrate Anatomy
BIOL 3430	Plant Physiology
BIOL 3440	General Physiology
BIOL 3460	Pathophysiology
BIOL 3461	Wildlife Biology
BIOL 3480	Developmental Biology
BIOL 3490	Histology
BIOL 3492	Plant Morphology
BIOL 4080	Field and Experiential Biology
BIOL 4095	Undergraduate Research Topics in Biology
BIOL 4096	Special Topics In Undergraduate Biology
BIOL 4306	Philosophy Of Biology
BIOL 4320	Environmental Toxicology
BIOL 4330	Aquatic Biology
BIOL 4350	Immunology
BIOL 4360	Genetic Analysis of Human Disease
BIOL 4362	Paleobiology
BIOL 4363	Genomics and Bioinformatics
BIOL 4370	Microbial Ecology
BIOL 4374	Biostatistics
BIOL 4380	Medical Microbiology
BIOL 4381	Advanced Molecular Biology
BIOL 4394	Biological Sciences Internship
BIOL 4410	General Entomology
BIOL 4430	Vertebrate Natural History
BIOL 4460	Parasitology
BIOL 4470	Animal Behavior
BIOL 4471	Invertebrate Zoology
BIOL 4480	Molecular Genetics
BIOL 4481	Physiological Ecology
BIOL 4490	Cell Biology
BIOL 4493	Endocrinology
CHEM 2325	Organic Chemistry II: Lecture
Total Hours	**36-37**

Code	Title	Hours
Major: Concentration (Cell and Molecular) [6]		
BIOL 3470	General Microbiology	4
BIOL 4480	Molecular Genetics	4
or BIOL 4490	Cell Biology	
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3339	Biochemistry II	3
CHEM 3438	Biochemistry I	4
Select 5 courses from the following (3 must be 4-credit hour courses):		18-20
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	

BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4394	Biological Sciences Internship	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Genetics	
or BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Select two from the following:		6-8
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3409	General Ecology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3440	General Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
Total Hours		**43-47**

Code	Title	Hours
Major: Concentration (Environmental, Evolutionary, and Organismal Biology) [6]		
BIOL 3409	General Ecology	4
Select eight from the following (5 must be 4-credit hour courses):		29
BIOL 2411	General Botany	
BIOL 2413	General Zoology	
BIOL 3364	Plant Taxonomy	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3461	Wildlife Biology	
BIOL 3492	Plant Morphology	
BIOL 4080	Field and Experiential Biology	
BIOL 4095	Undergraduate Research Topics in Biology	

BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4306	Philosophy Of Biology	
BIOL 4320	Environmental Toxicology	
BIOL 4330	Aquatic Biology	
BIOL 4362	Paleobiology	
BIOL 4370	Microbial Ecology	
BIOL 4374	Biostatistics	
BIOL 4394	Biological Sciences Internship	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4481	Physiological Ecology	
Select two from the following:		6-8
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
Total Hours		**39-41**

Code	Title	Hours
Major: Concentration (Forensic Biology) [6]		
BIOL 2441	Forensic Biology Concepts	4
BIOL 3470	General Microbiology	4
BIOL 4380	Medical Microbiology	3
BIOL 4410	General Entomology	4
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3438	Biochemistry I	4
FORS 3366	Forensic Science	3
FORS 4317	Applied Statistics for Forensic Science	3
FORS 4320	Fundamentals of Forensic Biology	3
FORS 4380	Ethics and Professional Practice	3
Select one from the following:		3-4
BIOL 3410	Human Biology	
BIOL 3440	General Physiology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4374	Biostatistics	
BIOL 4380	Medical Microbiology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
CHEM 3339	Biochemistry II	
Select two from the following:		6-8

BIOL 2411	General Botany
BIOL 2413	General Zoology
BIOL 3364	Plant Taxonomy
BIOL 3420	Comparative Vertebrate Anatomy
BIOL 3430	Plant Physiology
BIOL 3460	Pathophysiology
BIOL 3461	Wildlife Biology
BIOL 3480	Developmental Biology
BIOL 3490	Histology
BIOL 3492	Plant Morphology
BIOL 4080	Field and Experiential Biology
BIOL 4306	Philosophy Of Biology
BIOL 4320	Environmental Toxicology
BIOL 4330	Aquatic Biology
BIOL 4350	Immunology
BIOL 4360	Genetic Analysis of Human Disease
BIOL 4362	Paleobiology
BIOL 4363	Genomics and Bioinformatics
BIOL 4370	Microbial Ecology
BIOL 4381	Advanced Molecular Biology
BIOL 4394	Biological Sciences Internship
BIOL 4430	Vertebrate Natural History
BIOL 4460	Parasitology
BIOL 4470	Animal Behavior
BIOL 4471	Invertebrate Zoology
BIOL 4480	Molecular Genetics
BIOL 4481	Physiological Ecology
BIOL 4493	Endocrinology
Total Hours	**43-46**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Biology is designed to provide graduates with the following marketable skills:

- Master the depth of knowledge required for a degree in the biological sciences.
- Demonstrate critical thinking.
- Communicate effectively.
- Work collaboratively.

Bachelor of Science, Major in Biomedical Sciences

The Biomedical Sciences degree offered by the Department of Biological Sciences provides a robust, yet flexible curriculum with an emphasis on studying the biological basis of health and disease. It is designed to thoroughly prepare students for entrance into medical, dental, pharmacy, physician assistant, and other professional schools, as well as graduate study in the biomedical sciences and employment as a laboratory research assistant. No minor is required for this degree.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-biomedical-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Required Courses for the Major

The Biomedical Sciences Major must complete the following courses:

Code	Title	Hours
Bachelor of Science, Major in Biomedical Sciences		
Core Curriculum (p. 88)		

Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) (Courses for Science Majors) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2123	Organic Chemistry I: Lab	1
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 3438	Biochemistry I	4
MATH 1420	Calculus I [1]	4
Select one of the following:		3-4
MATH 1430	Calculus II	
MATH 3379	Statistical Methods in Practice	
STAT 3379	Statistical Methods in Practice	
PHYS 1101	General Physics Laboratory I	1
PHYS 1102	General Physics Laboratory II	1
PHYS 1301	General Physics-Mechanics and Heat	3
PHYS 1302	General Physics-Sound, Light, Electricity, and Magnetism	3
Major: Foundation		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2110	Being a Professional Biologist	1
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4110	Undergraduate Seminar	1
or BIOL 4111	Undergraduate Seminar	
BIOL 4361	Evolutionary Biology	3
Major: Prescribed Electives [3]		
Select 17 SCH of Biomedical Electives (at least 13 hours must be advanced): [3]		17
ANSC 3373	Animal Nutrition	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergraduate Research Topics in Biology	
BIOL 4096	Special Topics In Undergraduate Biology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Analysis of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4374	Biostatistics	
or STAT 3380	Statistical Design and Analysis of Experiments	

BIOL 4380	Medical Microbiology	
BIOL 4381	Advanced Molecular Biology	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Genetics	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
CHEM 2401	Quantitative Analysis	
CHEM 3339	Biochemistry II	
Students may only select two of the following:		
BIOL 2404	Human Anatomy & Physiology II [4]	
BIOL 2441	Forensic Biology Concepts [4]	
COMS 3391	Interpersonal Health Communication [4]	
ENGL 3330	Introduction to Technical Writing [4]	
HLTH 3360	Epidemiology [4]	
PSYC 3333	Physiological Psychology [4]	
PSYC 3374	Development Psychology [4]	
Electives: Advanced General		
Advanced General Electives [3]		13
Minor: Not Required [5, 6]		
Total Hours		**120-121**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as 1CH of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Students may need to use Biomedical Electives and/or General Electives to reach the 42-hour requirement for advanced credit.

4 No more than two of these courses may be applied toward the Biomedical Sciences degree. Students should consult with an academic advisor in the Biological Sciences early in their degree program regarding appropriate choices for their electives.

5 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

6 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-biomedical-sciences/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	BIOL 1406 or 1407	4
BIOL 1406 or 1407	4	CHEM 1412[1]	4
CHEM 1411[1]	4	ENGL 1302[2]	3
ENGL 1301[2]	3	MATH 1420[3]	4
	14		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area IX (p. 91)	3
BIOL 2440	4	BIOL 2110	1
CHEM 2323 & CHEM 2123	4	BIOL 3450 or 3470	4

HSTY 1301[4]	3	CHEM 2325 & CHEM 2125	4
MATH 1430, 3379, or STAT 3379	3-4	HSTY 1302[4]	3
		POLS 2305[5]	3
	17-18		**18**

Third Year

Fall	Hours	Spring	Hours
BIOL 3450 or 3470	4	Component Area VIII (p. 90)	3
CHEM 3438	4	BIOL 4361	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
POLS 2306[5]	3	Prescribed Electives[6]	4
	15		**14**

Fourth Year

Fall	Hours	Spring	Hours
Advanced General Electives[7]	4	Advanced General Electives [7]	9
Prescribed Electives[6]	10	BIOL 4110 or 4111	1
		Prescribed Electives[6]	3
	14		**13**

Total Hours: 120-121

1. Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
2. Satisfies the Core Curriculum requirement for Component Area I (Communication).
3. Satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as 1CH of the Core Curriculum requirement for Component Area IX (Component Area Option).
4. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies the Core Curriculum requirement for Component Area VII (Political Science).
6. See Prescribed Electives course listing below. At least 13 hours of these electives must be advanced.
7. Students may need to use Biomedical Electives and/or General Electives to reach the 42-hour requirement for advanced credit.

Code	Title	Hours
Prescribed Electives [6]		
ANSC 3373	Animal Nutrition	3
BIOL 3410	Human Biology	4
BIOL 3420	Comparative Vertebrate Anatomy	4
BIOL 3440	General Physiology	4
BIOL 3460	Pathophysiology	4
BIOL 3480	Developmental Biology	4
BIOL 3490	Histology	4
BIOL 4095	Undergraduate Research Topics in Biology	4
BIOL 4096	Special Topics In Undergraduate Biology	1-4
BIOL 4350	Immunology	3
BIOL 4360	Genetic Analysis of Human Disease	3
BIOL 4363	Genomics and Bioinformatics	3
BIOL 4374	Biostatistics	3
or STAT 3380	Statistical Design and Analysis of Experiments	
BIOL 4380	Medical Microbiology	3
BIOL 4381	Advanced Molecular Biology	3
BIOL 4460	Parasitology	4
BIOL 4480	Molecular Genetics	4
BIOL 4490	Cell Biology	4
BIOL 4493	Endocrinology	4
CHEM 2401	Quantitative Analysis	4
CHEM 3339	Biochemistry II	3

Student may only select two of the following:		
BIOL 2404	Human Anatomy & Physiology II [1]	4
BIOL 2441	Forensic Biology Concepts [1]	4
COMS 3391	Interpersonal Health Communication [1]	3
ENGL 3330	Introduction to Technical Writing [1]	3
HLTH 3360	Epidemiology [1]	3
PSYC 3333	Physiological Psychology [1]	3
PSYC 3374	Development Psychology [1]	3

[1] No more than two courses may be applied toward the Biomedical Sciences degree. Students should consult with an academic advisor in the Biological Sciences early in their degree program regarding appropriate choices for their electives.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Biomedical Sciences is designed to provide graduates with the following marketable skills:

- Master the depth of knowledge required for a degree in biomedical sciences.
- Demonstrate critical thinking.
- Communicate effectively.
- Work collaboratively.

Minor in Biology

Students seeking a minor in biology are required to complete:

Code	Title	Hours
Minor in Biology		
Required Courses		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2440	Introductory Cell Biology	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Select two of the following:		7-8
BIOL 3409	General Ecology	
BIOL 3450	Introductory Genetics	
BIOL 3470	General Microbiology	
BIOL 4361	Evolutionary Biology	
Total Hours		**27-28**

Note: This minor is not available to students majoring in Biology, Biomedical Sciences, or Health Sciences.

Minor in Conservation Biology

This minor in Conservation Biology is most commonly paired with the Interdisciplinary Agriculture-Animal Science major, although not restricted to that major. A minor in Wildlife Ecology (WECO) is also available. Students in the Minor in Conservation Biology are required to take the following:

Code	Title	Hours
Minor in Conservation Biology		
Required Courses		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 3409	General Ecology	4
BIOL 3364	Plant Taxonomy	3
BIOL 3461	Wildlife Biology	4
Select one of the following:		3-4
BIOL 4330	Aquatic Biology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Total Hours		**30-31**

Notes
This minor is not available to students majoring in Biology.

Students who major in Biology can take the Wildlife Ecology minor from the Department of Agricultural Sciences.

Department of Chemistry

The Department of Chemistry is approved by the American Chemical Society.

Chair: Donovan C. Haines (haines@shsu.edu) (936) 294-1530

Website: Department of Chemistry (http://www.shsu.edu/~chemistry/)

Mission

The Department of Chemistry is committed to providing an educational environment conducive to scholarship, intellectual development, and the acquisition of a foundation of knowledge and techniques required of professional chemists. This goal requires the effective representation of the fundamental areas of chemistry, a dedicated and creative faculty, and support for the many functions of the department.

Academic Programs

For a listing of programs offered within the Department of Chemistry, please see the **Programs** tab on this page.

The Department of Chemistry is approved by the American Chemical Society. Chemistry majors may pursue the Bachelor of Science for Professional Chemists that leads to American Chemical Society certification and prepares students for graduate studies in traditional chemical fields (some other programs qualify for certification with the right combination of courses). Students interested in professional schools, chemistry-associated industries, or secondary education may pursue the Bachelor of Science degree for Other Technical Careers. The growing interest in Forensic Science has prompted the Department of Chemistry to offer a Bachelor of Science in Forensic Chemistry that is designed to prepare students for careers combining a knowledge of chemistry and the legal system as well as a Bachelor of Science in Chemistry with a concentration in Forensic Science. Students completing these degrees can pursue opportunities in various forensic labs across the country, or can continue their education either in the graduate program in Forensic Science, or in graduate programs that are more traditional.

Highlights

- The Department of Chemistry has state of the art instrumentation for modern techniques including nuclear magnetic resonance spectrometry, x-ray diffraction, mass spectrometry, atomic absorption, fluorescence and UV-visible spectrophotometry, high performance liquid chromatography, gas chromatography, computational chemistry, and more.
- Chemistry majors work with highly quality faculty on innovative research in the chemistry research laboratories, gaining important hands-on experience solving problems, working on diverse teams, generating new knowledge in their field using the skills the students develop from their

coursework, and communicating their research results. Many students present results of their research each year at meetings of professional societies like the American Chemical Society, Society of Toxicology, American Academy of Forensic Sciences, and Texas Academy of Science and some coauthor papers in professional journals.

Career Opportunities

Everything around you is composed of chemicals. We live in a world of chemicals and life would not be possible without them. An understanding of the fundamentals of chemistry is important for everyone in today's society. Professional chemists are working to enhance our quality of life by improvements in food, medicine, clothing, building supplies, products for recreation, and a whole range of consumer products.

Virtually every industry or business that makes or sells a product is involved in chemistry. It is no wonder that the various areas of chemical and biochemical technology offer the largest field of employment in the physical sciences. Chemists are employed in fields such as:

- Environmental Analysis
- Agriculture
- Biotechnology
- Pharmaceutical Research
- Waste Management
- Energy Production
- Forensic Science
- Petrochemical Industry

Chemistry graduates will find many applications for their training in the fields of education, business, industry, law, government, and medicine.

Suggested Minors

A variety of minors can complement a major in chemistry. Some of the more popular minors in recent years have been biology, criminal justice, general business, mathematics, and physics. Others have included history, political science, and psychology.

Curriculum

Chemistry students learn how to critically examine and analyze observations, to use chemical understanding to propose solutions to problems of a quantitative or qualitative nature that may arise in industry, in academia, or in various careers associated with chemistry. Students majoring in Chemistry have the opportunity for hands-on experience in working with atomic absorption, gas chromatography, high performance liquid chromatography, ultraviolet and visible spectroscopy, x-ray diffraction, 300 MHz nuclear magnetic resonance spectroscopy, mass spectrometry, ion chromatography, capillary electrophoresis, and other standard instrumentation in chemistry.

- Bachelor of Science, Major in Chemistry: Biochemistry and Medicine Concentration (p. 967)
- Bachelor of Science, Major in Chemistry: Forensic Science Concentration (p. 971)
- Bachelor of Science, Major in Chemistry for Other Technical Careers (p. 974)
- Bachelor of Science, Major in Chemistry for Professional Chemists (p. 977)
- Bachelor of Science, Major in Forensic Chemistry (p. 980)
- Minor in Advanced Chemistry (p. 983)
- Minor in Chemistry (p. 984)

Student Organizations

Chemistry Club - The Chemistry Club is an active organization which encourages student interactions in a social atmosphere and which supports student travel to professional meetings.

Scholarships

Scholarships are available from the Department in Chemistry and from the University to support students' studies. For further information, contact the Chair, Department of Chemistry, or visit Department of Chemistry (http://www.shsu.edu/academics/chemistry/). Information on University scholarships may be obtained at Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships/) or telephone (936) 294-1774.

Director/Chair: **Donovan C Haines**

Benny E Arney, PHD (chm_bea@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Rice University; BA, Univ of St Thomas

Janet Horton Bius, PHD (chm_jhb@shsu.edu), *Lecturer of Chemistry*, *Department of Chemistry*, PHD, Univ of Kansas; MS, Sam Houston State University; BS, Sam Houston State University

Dustin E Gross, PHD (deg013@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Texas At Austin; BS, Univ of Arizona

Donovan C Haines, PHD (dch009@shsu.edu), *Professor and Chair of Chemistry*, *Department of Chemistry*, PHD, Wichita State University; BS, Wichita State University

Meagan Elizabeth Hinze, PHD (meh066@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Cornell University; MS, Cornell University; BS, Butler University

Christopher Eugene Hobbs, PHD (ceh079@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Texas A&M University; BS, Angelo State University

Samuel L Perkins, PHD (slp018@shsu.edu), *Lecturer of Chemistry*, *Department of Chemistry*, PHD, Texas A&M University; BS, Univ of Texas At Austin

Ilona Petrikovics, PHD (ixp004@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ Debrecen Med & Health Sci; PHD, Kossuth Laos University; MSC, Univ Debrecen Med & Health Sci

Richard Neal Schaugaard, PHD (rschaugaard@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Indiana University; BS, Univ of Washington

David E Thompson, PHD (det002@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Wisconsin-Madison; BA, Carleton College

Tarek Mohsen Trad, PHD (tmt033@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oklahoma State University; BS, Beirut Arab Univ

Adrian Villalta-Cerdas, PHD (axv067@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Costa Rica

Darren Lee Williams, PHD (williams@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oregon State University; BS, Univ of Texas At Austin

Christopher M Zall, PHD (cxz027@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Minnesota-Twin Cities; MS, Univ of Minnesota-Twin Cities; BA, Carleton College

Bachelor of Science, Major in Chemistry: Biochemistry and Medicine Concentration

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-chemistry/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Chemistry: Biochemistry and Medicine Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Sciences) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Government/Political Science)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1, 3]		4
Degree Specific Requirement		
ENGL 3330	Introduction to Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
UNIV 1101	Bearkat U [3]	1
Major: Foundation		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3367	Introduction to Inorganic Chemistry	3
CHEM 4100	Chemical Literature Seminar	1
CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4448	Physical Chemistry I	4
Concentration: Biochemistry and Medicine		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
CHEM 3339	Biochemistry II	3
CHEM 3438	Biochemistry I	4
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4440	Instrumental Analytical Chemistry	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
or PHYS 1411	Introduction To Physics I	
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
or PHYS 1422	Introduction To Physics II	
Concentration: Prescribed Electives		
Select 12 hours from the following:		12
BIOL 2401	Human Anatomy	
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	

or BIOL 2404	Human Anatomy & Physiology II	
BIOL 2440	Introductory Cell Biology	
BIOL 3450	Introductory Genetics	
CHEM 4327	Polymer Chemistry	
CHEM 4380	Forensic Chemistry	
CHEM 4395	Undergraduate Research In Chemistry	
CHEM 4449	Physical Chemistry II	
MATH 1342	Elementary Statistics	
MATH 3379	Statistical Methods in Practice	
FORS 4317	Applied Statistics for Forensic Science	
Electives: Advanced General		
Advanced Electives [4]		6
Minor: Not Required [5]		
Total Hours		**120**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

3 UNIV 1101 satisfies one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific requirement.

4 Six hours if all prescribed electives are advanced courses, more if non-advanced prescribed electives are selected. Students must complete at least 42 hours of advanced coursework.

5 A minor is not required but can be paired with this major. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. The Minor in Chemistry cannot be paired with this degree program. The Minor in Advanced Chemistry can be paired with this major, but students must complete at least six additional chemistry hours beyond those in the major.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 3367, and CHEM 4448 and in all required Physics and Mathematics courses.

A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

First Year

Fall	Hours	Spring	Hours
BIOL 1406		4 Component Area IV (p. 89)	3
CHEM 1411[1]		4 CHEM 1412[1]	4
ENGL 1301[2]		3 ENGL 1302[2]	3
MATH 1420[3]		4 MATH 1430	4
UNIV 1101[4]		1	
		16	**14**

Second Year

Fall	Hours	Spring	Hours
CHEM 2323 & CHEM 2123		4 BIOL 1407	4
CHEM 2401		4 CHEM 2325 & CHEM 2125	4
CHEM 3367		3 ENGL 3330	3

PHYS 1301 & PHYS 1101 (or PHYS 1411)		4 PHYS 1302 & PHYS 1102 (or PHYS 1422)	4
	15		**15**

Third Year

Fall	Hours	Spring	Hours
CHEM 3438		4 Component Area V (p. 90)	3
CHEM 4448		4 Component Area IX (p. 91)	3
HSTY 1301[5]		3 CHEM 3339	3
POLS 2306[6]		3 Concentration: Prescribed Elective[7]	3
		HSTY 1302[5]	3
	14		**15**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Elective[8]		3 Component Area VIII (p. 90)	3
CHEM 4100		1 Advanced Elective[8]	3
CHEM 4440		4 CHEM 4260	2
Concentration: Prescribed Electives[7]		6 CHEM 4367	3
POLS 2305[6]		3 Concentration: Prescribed Elective[7]	3
	17		**14**

Total Hours: 120

1. Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
2. Satisfies the Core Curriculum requirement for Component Area I (Communication).
3. Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4. UNIV 1101 satisfies one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific requirement.
5. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
6. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
7. See Concentration: Prescribed Electives listing below.
8. Electives should be chosen to meet the requirement of 42 advanced hours. A minor is not required but can be chosen. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

Code	Title	Hours
Concentration: Prescribed Electives [7]		
Select 12 hours from the following:		
BIOL 2401	Human Anatomy	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
CHEM 4327	Polymer Chemistry	3
CHEM 4380	Forensic Chemistry	3
CHEM 4395	Undergraduate Research In Chemistry	3
CHEM 4449	Physical Chemistry II	4
MATH 1342	Elementary Statistics	3
MATH 3379	Statistical Methods in Practice	3
FORS 4317	Applied Statistics for Forensic Science	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 3367, and CHEM 4448 and in all required Physics and Mathematics courses.

A minor is not required but can be paired with this major. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. The Minor in Chemistry cannot be paired with this degree program. The Minor in Advanced Chemistry can be paired with this major, but students must complete at least six additional chemistry hours beyond those in the major. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Chemistry: Biochemistry and Medicine Concentration is designed to provide graduates with the following marketable skills:

- Work safely with standard chemicals in a chemistry or biochemistry laboratory.
- Keep thorough and accurate records of chemistry and biochemistry experiments.
- Write final research reports and orally present results of experiments.
- Analyze and interpret experimental data, including spectrophotometric data and kinetic data.
- Manipulate enzyme function for use in chemistry, biochemistry, or medicine.

Bachelor of Science, Major in Chemistry: Forensic Science Concentration

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-chemistry/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Chemistry: Forensic Science Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
UNIV 1101	Bearkat U	1
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
ENGL 3330	Introduction to Technical Writing	3
Major: Foundation		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3367	Introduction to Inorganic Chemistry	3
CHEM 4100	Chemical Literature Seminar	1
CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4448	Physical Chemistry I	4
Concentration: Forensic Science		
BIOL 1406	General Biology I	4
CHEM 3438	Biochemistry I	4
CHEM 4327	Polymer Chemistry	3
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4380	Forensic Chemistry	3
CHEM 4395	Undergraduate Research In Chemistry	3
CHEM 4440	Instrumental Analytical Chemistry	4
CHEM 4449	Physical Chemistry II	4
FORS 4317	Applied Statistics for Forensic Science	3
or MATH 3379	Statistical Methods in Practice	
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
or PHYS 1411	Introduction To Physics I	
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
or PHYS 1422	Introduction To Physics II	
Electives: General		
General Elective		9

Minor: Not Required [3, 4]	
Total Hours	**120**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), the one semester credit hour Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.

3 A minor is not required but can be chosen. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses. A minor in Math, as a common example, requires 10 additional hours beyond MATH 1420 and MATH 1430. Alternatively, a Forensic Science minor is recommended for additional coursework in ethics and evidence handling.

4 The following minor cannot be paired with this degree program: Minor in Chemistry. A Minor in Advanced Chemistry can be paired with this major, but the student must complete at least six hours of coursework in the minor beyond that required in the major.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2123, CHEM 2125, CHEM 2323, CHEM 2325, CHEM 2401, CHEM 4448, and in all required Physics and Mathematics courses.

A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses.

First Year

Fall	Hours	Spring	Hours
BIOL 1406		4 CHEM 1412[1]	4
CHEM 1411[1]		4 CHEM 3367	3
ENGL 1301[2]		3 ENGL 1302[2]	3
MATH 1420[3]		4 MATH 1430	4
UNIV 1101		1	
		16	**14**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 CHEM 2125	1
CHEM 2123		1 CHEM 2325	3
CHEM 2323		3 ENGL 3330	3
CHEM 2401		4 General Electives[4]	3
PHYS 1301 & PHYS 1101 (or PHYS 1411)		4 PHYS 1302 & PHYS 1102 (or PHYS 1422)	4
		15	**14**

Third Year

Fall	Hours	Spring	Hours
CHEM 3438		4 Component Area V (p. 90)	3
CHEM 4327		3 Component Area IX (p. 91)	3
CHEM 4448		4 CHEM 4395	3
HSTY 1301[5]		3 CHEM 4449	4
POLS 2305[6]		3 HSTY 1302[5]	3
		17	**16**

Fourth Year

Fall	Hours	Spring	Hours
CHEM 4100		1 Component Area VIII (p. 90)	3

CHEM 4440	4 CHEM 4260	2
FORS 4317 or MATH 3379	3 CHEM 4367	3
General Electives[4]	3 CHEM 4380	3
POLS 2306[6]	3 General Electives[4]	3
	14	**14**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) as well as one credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).
4 A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses. A minor in Math, as a common example, requires 10 additional hours beyond MATH 1420 and MATH 1430 for 121 hours total. Alternatively, a Forensic Science minor is recommended for additional coursework in ethics and evidence handling. The following minor cannot be paired with this degree program: Minor in Chemistry. A Minor in Advanced Chemistry can be paired with this major, but students must complete at least six hours in the minor beyond those required in their major.
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2123, CHEM 2125, CHEM 2323, CHEM 2325, CHEM 2401, CHEM 4448, and in all required Physics and Mathematics courses.

A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Chemistry: Forensic Science Concentration is designed to provide graduates with the following marketable skills:

- Work safely with standard chemicals in a chemistry or forensic laboratory.
- Keep thorough and accurate records of chemistry and forensic experiments.
- Write final research reports and orally present results of experiments.
- Analyze and interpret experimental data, including spectrophotometric data and statistical analysis.
- Understand the application of chemical measurements to forensic investigation.

Bachelor of Science, Major in Chemistry for Other Technical Careers

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-chemistry/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Chemistry for Other Technical Careers		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [3]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
or PHYS 1411	Introduction To Physics I	
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
or PHYS 1422	Introduction To Physics II	
UNIV 1101	Bearkat U [3]	1
Major: Foundation		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3367	Introduction to Inorganic Chemistry	3
CHEM 4100	Chemical Literature Seminar	1
CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4395	Undergraduate Research In Chemistry	3
CHEM 4440	Instrumental Analytical Chemistry	4
CHEM 4448	Physical Chemistry I	4
Major: Prescribed Electives		
CHEM Advanced Electives [4,5]		3-4
Electives: Advanced		
Advanced Electives [5]		19-20
Electives: General		
General Electives [5]		8
Minor: Not Required [6,7]		
Total Hours		**120**

[1] MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), the one semester credit hour Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.

3 UNIV 1101 satisfies one hour of Component Area IX (Component Area Option) and the Degree Specific requirement.

4 See the recommended CHEM Advanced Electives course listing below. In the spring of the third year, a student should choose either one four credit hour advanced chemistry elective and one three credit hour Prescribed Elective **or** choose one three credit hour advanced chemistry elective and one four credit hour Prescribed Elective.

5 Electives must be chosen to ensure 42 advanced hours and 120 overall hours for the degree. CHEM Advanced Electives, Advanced Electives, and General Electives will total 24 credit hours.

6 A minor is not required but can be paired with this major. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. A minor in MATH, as a common example, only requires 10 additional hours beyond MATH 1420 and MATH 1430. Students should use elective and minor hours to satisfy the 42 advanced hour requirement.

7 The following minor cannot be paired with this degree program: Minor in Chemistry. The Minor in Advanced Chemistry can be paired with this major, but requires at least six hours of courses in the minor that do not count toward the student's major requirements.

Code	Title	Hours
CHEM Advanced Electives [4]		**3-4**
The following courses are recommended:		
CHEM 3339	Biochemistry II	3
CHEM 3361	Discoveries In Chemistry and Textiles	3
CHEM 3368	Environmental Chemistry	3
CHEM 3438	Biochemistry I	4
CHEM 4327	Polymer Chemistry	3
CHEM 4442	Air Quality	4
CHEM 4443	Structural Spectroscopic Methods	4

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2123, CHEM 2125, CHEM 2323, CHEM 2325, CHEM 2401, CHEM 3367, CHEM 4448, and in all required Physics and Mathematics courses.

A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses.

First Year

Fall	Hours	Spring	Hours
CHEM 1411[1]		4 Component Area IV (p. 89)	3
ENGL 1301[2]		3 Component Area IX (p. 91)	2
HSTY 1301[3]		3 CHEM 1412[1]	4
MATH 1420[4]		4 ENGL 1302[2]	3
UNIV 1101[5]		1 MATH 1430	4
		15	**16**

Second Year

Fall	Hours	Spring	Hours
CHEM 2123		1 CHEM 2125	1
CHEM 2323		3 CHEM 2325	3
CHEM 2401		4 Elective: General[6]	4
CHEM 3367		3 ENGL 3330	3
PHYS 1301 & PHYS 1101 (or PHYS 1411)		4 PHYS 1302 & PHYS 1102 (or PHYS 1422)	4
		15	**15**

Third Year

Fall	Hours	Spring	Hours
CHEM 4448	4	CHEM Advanced Elective[6,7]	4
Elective: Advanced[6,7]	3	Elective: Advanced[6,7]	3
Elective: General[6]	4	Elective: Advanced [6,7]	4
POLS 2305[8]	3	POLS 2306[8]	3
	14		**14**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area V (p. 90)	3
CHEM 4440	4	CHEM 4100	1
Elective: Advanced[6,7]	3	CHEM 4260	2
Elective: Advanced[6,7]	3	CHEM 4367	3
HSTY 1302[3]	3	CHEM 4395	3
		Elective: Advanced[6,7]	3
	16		**15**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), the one semester credit hour Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.
5 UNIV 1101 satisfies both Component Area IX (Component Area Option) and the Degree Specific requirement.
6 Electives must be chosen to ensure 42 advanced hours and 120 overall hours for the degree. CHEM Advanced Electives, Advanced Electives, and General Electives will total 24 credit hours.
7 See the recommended CHEM Advanced Electives course listing below. In the spring of the third year, a student should choose either one four credit hour advanced chemistry elective and one three credit hour Prescribed Elective **or** choose one three credit hour advanced chemistry elective and one four credit hour Prescribed Elective.
8 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Code	Title	Hours
CHEM Advanced Electives [8]		**3-4**
The following courses are recommended:		
CHEM 3339	Biochemistry II	3
CHEM 3361	Discoveries In Chemistry and Textiles	3
CHEM 3368	Environmental Chemistry	3
CHEM 3438	Biochemistry I	4
CHEM 4327	Polymer Chemistry	3
CHEM 4442	Air Quality	4
CHEM 4443	Structural Spectroscopic Methods	4

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2123, CHEM 2125, CHEM 2323, CHEM 2325, CHEM 2401, CHEM 3367, CHEM 4448, and in all required Physics and Mathematics courses.

A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses.

A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. A minor in MATH, as a common example, only requires 10 additional hours beyond MATH 1420 and MATH 1430. Students should use elective and minor hours to satisfy the 42 advanced hour requirement.

The following minor cannot be paired with this degree program: Minor in Chemistry. The Minor in Advanced Chemistry can be paired with this major, but requires that at least six hours of courses in the minor be taken beyond those that count toward the student's major.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Chemistry for Other Technical Careers is designed to provide graduates with the following marketable skills:

- Work safely with standard chemicals in a chemistry laboratory.
- Keep thorough and accurate records of chemistry experiments.
- Write final research reports and orally present results of experiments.
- Analyze and interpret experimental data, including spectrophotometric data.
- Understand the use of the major methods of purification of chemical compounds, including chromatographic techniques.

Bachelor of Science, Major in Chemistry for Professional Chemists

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-chemistry/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Chemistry for Professional Chemists		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1, 3]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
or PHYS 1411	Introduction To Physics I	
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
or PHYS 1422	Introduction To Physics II	
UNIV 1101	Bearkat U [3]	1
Major: Foundation		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3367	Introduction to Inorganic Chemistry	3
CHEM 3438	Biochemistry I	4

CHEM 4100	Chemical Literature Seminar	1
CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4327	Polymer Chemistry	3
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4395	Undergraduate Research In Chemistry	3
CHEM 4440	Instrumental Analytical Chemistry	4
CHEM 4448	Physical Chemistry I	4
CHEM 4449	Physical Chemistry II	4
Electives: General		
General Electives		11
Electives: Advanced		
Advanced Electives [4]		8
Minor: Not Required [4, 5]		
Total Hours		**120**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the one credit hour Core Curriculum requirement for Component Area IX (Component Area Option) as well as the Degree Specific requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.

3 UNIV 1101 satisfies the one credit hour Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific requirement. Students may seek an exception from the Department of Chemistry to substitute an elective course for UNIV 1101 in the Degree Specific Requirement.

4 A minor is not required but can be paired with this major. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses. A minor in MATH, as a common example, requires 10 additional hours beyond MATH 1420 and MATH 1430.

5 The following minor cannot be paired with this degree program: Minor in Chemistry. Any other minor, including Advanced Chemistry, can be paired with a Chemistry major.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required
for CHEM 1411, CHEM 1412, CHEM 2123, CHEM 2125, CHEM 2323, CHEM 2325,CHEM 2401, CHEM 3367, CHEM 4448 and in all required Physics and Mathematics courses.

A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses.

First Year

Fall	Hours	Spring	Hours
CHEM 1411[1]		4 Component Area IV (p. 89)	3
ENGL 1301[2]		3 CHEM 1412[1]	4
HSTY 1301[3]		3 ENGL 1302[2]	3
MATH 1420[4]		4 MATH 1430	4
UNIV 1101[5]		1	
		15	**14**

Second Year

Fall	Hours	Spring	Hours
CHEM 2323 & CHEM 2123		4 CHEM 2325 & CHEM 2125	4
CHEM 2401		4 ENGL 3330	3

CHEM 3367	3	General Electives[6]	4
PHYS 1301 & PHYS 1101 (or PHYS 1411)	4	PHYS 1302 & PHYS 1102 (or PHYS 1422)	4
	15		**15**

Third Year

Fall	Hours	Spring	Hours
CHEM 3438	4	Component Area V (p. 90)	3
CHEM 4448	4	Component Area IX (p. 91)	3
General Electives[6]	4	CHEM 4449	4
POLS 2305[7]	3	General Electives[6]	3
		POLS 2306[7]	3
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives[6]	4	Component Area VIII (p. 90)	3
CHEM 4100	1	Advanced Electives[6]	4
CHEM 4327	3	CHEM 4260	2
CHEM 4440	4	CHEM 4367	3
HSTY 1302[3]	3	CHEM 4395	3
	15		**15**

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.
2 Satisfies the Core Curriculum requirement for Component Area I (Communication).
3 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the one credit hour Core Curriculum requirement for Component Area IX (Component Area Option) as well as the Degree Specific requirement.
5 UNIV 1101 satisfies the one credit hour Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.
6 Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses. A minor is not required with this major but can be added and will normally fill most electives. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. A minor in MATH, as a common example, requires 10 additional hours beyond MATH 1420 and MATH 1430.
7 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required
for CHEM 1411, CHEM 1412, CHEM 2123, CHEM 2125, CHEM 2323, CHEM 2325,CHEM 2401, CHEM 3367, CHEM 4448 and in all required Physics and Mathematics courses.

Students should use elective and minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses. A minor is not required with this major, but can be added and will normally fill most electives. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. A minor in MATH, as a common example, requires 10 additional hours beyond MATH 1420 and MATH 1430.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Chemistry for Professional Chemists is designed to provide graduates with the following marketable skills:

- Work safely with standard chemicals in a chemistry laboratory.
- Keep thorough and accurate records of chemistry experiments.
- Write final research reports and orally present results of experiments.
- Analyze and interpret experimental data, including spectrophotometric data.
- Understand the use of the major methods of purification of chemical compounds, including chromatographic techniques.

Bachelor of Science, Major in Forensic Chemistry

Students seeking background and training in the area of forensic science can obtain a Bachelor of Science degree in Forensic Chemistry with options for no minor, a Forensic Science minor, or a Criminal Justice minor. This degree option educates students for careers in forensic chemistry in both private and government arenas and also prepares students to enter graduate schools in forensic science.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-forensic-chemistry/)

Code	Title	Hours
Bachelor of Science, Major in Forensic Chemistry		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Sciences) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (American History)		6
Component Area VII (Government/Political Science)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Area IV elective or Oral Communication) [4]		4
Degree Specific Requirements		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
ENGL 3330	Introduction to Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 3379	Statistical Methods in Practice	3
or FORS 4317	Applied Statistics for Forensic Science	
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
or PHYS 1411	Introduction To Physics I	
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
or PHYS 1422	Introduction To Physics II	
UNIV 1101	Bearkat U [4]	1
Major: Foundation		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3367	Introduction to Inorganic Chemistry	3
CHEM 3438	Biochemistry I	4
CHEM 4100	Chemical Literature Seminar	1
CHEM 4367	Advanced Inorganic Chemistry	3

CHEM 4380	Forensic Chemistry	3
CHEM 4440	Instrumental Analytical Chemistry	4
CHEM 4448	Physical Chemistry I	4
Minor: Options [5,6,7]		
Option 1: No Minor in Forensic Science or Criminal Justice (126 hours) [5,6,7]		15
FORS 3366	Forensic Science [6]	
FORS 4380	Ethics and Professional Practice [6]	
FORS 3380	Introduction to Forensic Chemistry [6]	
Prescribed Elective: FORS or CRIJ courses (6 hours, at least 4 should be advanced) [5]		
Option 2: Forensic Science Minor (129 hours) [5,6,7]		**18**
Forensic Science Minor Coursework (18 hrs, at least 4 advanced) [5,6,7]		
CRIJ 2368	Criminal Investigation	
CRIJ 2394	Courts And Criminal Procedure	
FORS 3366	Forensic Science	
FORS 3380	Introduction to Forensic Chemistry	
FORS 4310	Physical Evidence Techniques	
FORS 4317	Applied Statistics for Forensic Science	
FORS 4320	Fundamentals of Forensic Biology	
FORS 4330	Fingerprint Examination	
FORS 4364	Crime Scene Investigation Techniques	
FORS 4380	Ethics and Professional Practice	
Option 3: Criminal Justice Minor (126 hours) [5,6,7]		**18**
CRIJ 2361	Introduction To The Criminal Justice System [3]	
CRIJ 2362	Criminology	
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 3378	Introduction To Methods Of Research	
CRIJ 4385	Criminal Justice and Social Diversity	
FORS 3366	Forensic Science	
Total Hours		**126**

1. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one hour of Component Area IX (Component Area Option), and the Degree Specific requirement.
2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.
3. CRIJ 2361 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
4. UNIV 1101 satisfies one credit hour of Component Area IX (Component Option Area) and the Degree Specific requirement.
5. Students should use minor hours to satisfy the 42 advanced hour requirement. Advanced hours are 3000- and 4000-level courses.
6. Students opting for the Forensic Science minor are highly recommended to select FORS 3366 Forensic Science and FORS 4380 Ethics and Professional Practice as part of their degree plan to help prepare for the Texas Forensic Analyst licensing exam. A course in statistics is also required but is part of the Degree Specific requirements. Selection of FORS 3380 Introduction to Forensic Chemistry in the minor is also highly recommended.
7. Students can have additional minors or, in the no minor option add minors other than Criminal Justice or Forensic Science. Additional minors add additional coursework to the degree plan. The following minor cannot be paired with this degree program: Minor in Chemistry. The Minor in Advanced Chemistry can be added to achieve American Chemical Society certification for the degree.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 3367 , CHEM 4448 and CHEM 4440, and in all required Physics and Mathematics courses.

This sequence has three options for required minor as listed above: no minor in Forensic Science or Criminal Justice, a minor in Forensic Science, or a minor in Criminal Justice. Students should use the minor or elective hours to satisfy the 42-advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-forensic-chemistry/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 1406	4	BIOL 1407	4
CHEM 1411[1]	4	CHEM 1412[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
MATH 1420[3]	4	MATH 1430	4
UNIV 1101 (Or general elective)[4]	1		
	16		**15**

Second Year

Fall	Hours	Spring	Hours
CHEM 2123	1	CHEM 2125	1
CHEM 2323	3	CHEM 2325	3
CHEM 2401	4	ENGL 3330	3
CHEM 3367	3	FORS 3366 (course is required in all minor options)[5]	3
PHYS 1101	1	PHYS 1102	1
PHYS 1301	3	PHYS 1302	3
	15		**14**

Third Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	BIOL 3450	4
CHEM 3438	4	POLS 2306[6]	3
CHEM 4448	4	MATH 3379 or FORS 4317	3
POLS 2305[6]	3	Elective (Advanced) or Minor Option Course[5,7,8]	4
Minor Option Course[5,7,8]	3	Minor Option Course[5,7,8]	3
	17		**17**

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)	3	Component Area V (p. 90)	3
CHEM 4440	4	CHEM 4100	1
HSTY 1301[9]	3	CHEM 4367	3
Elective (Advanced) or Minor Option Course[5,7,8]	3	CHEM 4380	3
Minor Option Course[5,7,8]	3	HSTY 1302[9]	3
		Minor Option Course[5,7,8]	3
	16		**16**

Total Hours: 126

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

4 UNIV 1101 satisfies one credit hour of Component Area IX (Component Area Option) and the Degree Specific Requirement.

5 FORS 3366 is required in all three minor options. The remaining 4-5 minor option courses vary depending on whether the student opts for no minor, the Forensic Science minor, or the Criminal Justice minor. Students should select courses to ensure they achieve the 42 required advanced hours. Advanced hours are 3000 or 4000 level courses.

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

7 Students selecting a minor in Forensic Science or Criminal Justice can have additional minors as well (though this adds additional coursework to the degree plan). The following minor cannot be paired with this degree program: Minor in Chemistry. The Minor in Advanced Chemistry can be added to achieve American Chemical Society certification for the degree.

8 Students who are interested in the graduate programs in Forensic Science at SHSU are encouraged to take BIOL 3470 and either BIOL 4480 or BIOL 4381 as advanced electives. Students seeking licensing as Forensic Analysts take FORS 4317 (or

9 alternatively MATH 3379) to meet statistics requirements to take the licensing exam (the most up to date licensing requirements (https://www.txcourts.gov/fsc/licensing/)). Course selections in minor and electives must ensure at least 42 advanced hours for degree.
Satisfies the Core Curriculum requirement for Component Area VI (History).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 3367, CHEM 4448 and CHEM 4440, and in all required Physics and Mathematics courses.

This sequence has three options for the required minor as listed above: no minor, a minor in Forensic Science, or a minor in Criminal Justice. Students should use the minor or elective hours to satisfy the 42-advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Forensic Chemistry is designed to provide graduates with the following marketable skills:

- Work safely with standard chemicals in a chemistry laboratory.
- Keep thorough and accurate records of chemistry experiments.
- Write final research reports and orally present results of experiments.
- Analyze and interpret experimental data, including spectrophotometric data.
- Understand the use of the major methods of purification of chemical compounds, including chromatographic techniques.

Minor in Advanced Chemistry

The Minor in Advanced Chemistry allows students in chemistry degree plans not certified by the American Chemical Society (ACS) to add the courses needed to obtain that organization's certification. The Minor in Advanced Chemistry includes four courses required for ACS Certification that are not already in the Forensic Chemistry major degree plan, plus six hours of advanced chemistry electives. The minor can be paired with other majors as long as at least six advanced hours in the minor are taken beyond the major's requirements.

Code	Title	Hours
Minor in Advanced Chemistry		
Required Courses		
CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4327	Polymer Chemistry	3
CHEM 4395	Undergraduate Research In Chemistry	3
CHEM 4449	Physical Chemistry II	4
Prescribed Electives		
Advanced Chemistry Electives		6-8
Total Hours		**18-20**

Minor in Chemistry

A minor in Chemistry requires a minimum of six semesters of coursework and shall include:

Code	Title	Hours
Minor in Chemistry		
Required Courses		
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
Advanced chemistry including one advanced laboratory course		6-7
Total Hours		**26-27**

Note: A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, and CHEM 2125.

Department of Computer Science

The Computing Science Program is accredited by the Computing Accreditation Commission of ABET (https://www.abet.org/), under the commission's General Criteria and Program Criteria for Computer Science and Similarly Named Computing Programs.

Sam Houston State University is designated as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) *(*http://www.nsa.gov/resources/students-educators/centers-academic-excellence/*) for the B.S. Degree in Computing Science, concentration in Information Assurance (IA), by the National Security Agency (NSA) and the Department of Homeland Security (DHS).*

Chair: Dr. Bing Zhou (bxz003@shsu.edu) (936) 294-3846

Websites: Computer Science (http://cs.shsu.edu/) / (http://cs.shsu.edu/) Digital Forensics (http://df.shsu.edu/)

Mission

The Department of Computer Science is a community of faculty, staff, and students, centered in the computer science disciplines. The Department of Computer Science is dedicated to providing the highest quality education possible to its graduate and undergraduate students through excellence in teaching and excellence in research. The department is committed to furthering the pursuit of knowledge and meeting the needs of a diverse society.

The Department of Computer Science seeks to provide an environment that encourages innovative thinking, academic rigor, and the pursuit of scholarship in an atmosphere that promotes high ethical and moral values and mutual respect, embracing diversity, and working towards a goal of instilling a life-long love of learning.

Academic Programs

The Computing Science program offers major study plans for students wishing to pursue careers in industry or government (as programmers/analysts/software engineers, as network and database administrators, and as digital forensics and information security professionals), or to prepare for advanced studies at the graduate level. Minor study plans are offered which can be tailored to the needs of students majoring in almost any field.

The **Bachelor of Science in Computing Science** has three concentrates in Computing Science, Information Systems, or Information Assurance.

The **Bachelor of Science in Software Engineering** is designed to provide the skills and competencies required by students wishing to prepare for careers in software development.

The **Bachelor of Science in Cybersecurity** prepares students for professional work in business and industry, as well as government and law enforcement, as a digital forensic analyst; including the collection, preservation, analysis, and reporting of digital evidence.

Highlights

Sam Houston State University provides a comprehensive computing environment for students. The Office of Information Technology Services operates a large number of computing laboratories containing desktop computers, and workstations. A variety of operating systems, network protocols, programming languages, and application packages are available. Students have full access to the Internet and E-mail facilities when on campus and through remote access facilities from off-campus. In addition to the institutional facilities, the Department of Computer Science operates a range of lab facilities to support its mission and programs, including network robotics and Unix/Linux labs, a data recovery lab and a network security lab. The department operates a 40-node symmetric multiprocessing system for use in parallel processing, digital forensics, cryptanalysis, and steganographic research. The department also has access to state-of-the-art virtualization facilities. As part of its operations, the department of Computer Science houses the Sam Houston State University Cyber Forensics Intelligence Center (CFIC), a center dedicated to the development of digital forensics training for law enforcement personnel and research opportunities into forensics and security issues.

Career Opportunities

Computing professionals support many scientific, governmental, and commercial enterprises though network and communication systems management, application (computer programs) development and maintenance, and hardware design. The management of computing resources within organizations is typically a mission-critical activity and computing professionals occupy key organizational roles as network and database administrators, software engineers, systems analysts, and programmers. Of key concern in today's modern environment is the protection, assurance, and recovery of computing resources, providing opportunities for those wanting to work in the information assurance and digital forensics fields.

Program Specific Requirements

The baccalaureate degree in Computing Science has the following program-specific requirements:

Mathematics

Code	Title	Hours
Course Requirements		
MATH 1420	Calculus I	4

MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Advanced MATH/STAT		3
STAT 3379	Statistical Methods in Practice	3
Total Hours		**17**

Science

Code	Title	Hours
Course Requirements		
Science		8

- Bachelor of Science, Major in Computing Science (p. 988)
- Bachelor of Science, Major in Computing Science: 4+1 MS Computing and Data Science (p. 990)
- Bachelor of Science, Major in Computing Science (Information Assurance, IA) (p. 994)
- Bachelor of Science, Major in Computing Science (Information Assurance, IA): 4+1 MS Computing and Data Science (p. 996)
- Bachelor of Science, Major in Computing Science (Information Systems, IS) (p. 1000)
- Bachelor of Science, Major in Computing Science (Information Systems, IS): 4+1 MS Computing and Data Science (p. 1002)
- Bachelor of Science, Major in Cybersecurity (p. 1006)
- Bachelor of Science, Major in Software Engineering (p. 1008)
- Minor in Computer Science: Computer Sciences, CS (p. 1011)
- Minor in Computer Science: Information Assurance, IA (p. 1012)
- Minor in Computer Science: Information Systems, IS (p. 1013)

Student Organizations

The student chapter ACM@SHSU provides a learning environment through speakers and special projects that unite students, professors, and industry professionals. These relationships help promote the sharing of knowledge and skills related to computer science. The student chapter sponsors field trips, campus visits by guest speakers, and occasional student/faculty outings.

Internships

While the Computer Science department does not operate internships as a designated part of its degree programs, a number of students have been successful in obtaining internships with the FBI, Austin Department of Public Safety, and a number of commercial organizations.

Scholarships

The Department of Computer Science offers the following scholarships:

- **The Computer Science Scholarship**: awarded to full-time undergraduate students working toward a degree in Computer Science with an overall GPA above 3.0.
- **The Johnny Cook Kelly Memorial Scholarship:** awarded to full-time undergraduate computer science majors with a preference given to students from Walker County.

Each of these scholarships requires a minimum GPA of 3.0 and registration in courses leading to a degree in Computer Science. Other criteria are also pertinent to individual scholarships. More information can be obtained through the department.

Director/Chair: **Bing Zhou**

Min Kyung An, PHD (an@shsu.edu), *Associate Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Texas At Dallas; MS, Univ of Texas-Arlington; BS, Jeju National University

Kirk A Burns, MS (lib_kab@shsu.edu), *Senior Lecturer of Computer Science*, *Department of Computer Science*, MS, Sam Houston State University; BS, Sam Houston State University

David S. Burris, PHD (csc_dsb@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Texas A&M University; MA, Texas State Univ-San Marcos; BS, Texas State Univ-San Marcos; BS, Texas State Univ-San Marcos

Alberto Alejandro Ceballos Delgado, BS (aac088@shsu.edu), *Lecturer of Computer Science*, *Department of Computer Science*, BS, Sam Houston State University

Hyuk Cho, PHD (hxc005@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin; MA, Korea University; BE, Chonbuk National University

Robert J. Greenberg, MS (rjg046@shsu.edu), *Assistant Professor of Practice of Computer Science*, *Department of Computer Science*, MS, Illinois State University; BS, Illinois State University

ABM Rezbaul Islam, PHD (ari014@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of North Texas; MS, Ajou University; BSC, Shahjalal Univ of Sci & Techno

Haodi Jiang, PHD (hxj024@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, New Jersey Institute of Techn; MS, Florida Int'L Univ; BE, Southwest University

Pat Ko, PHD (pxk018@shsu.edu), *Assistant Professor of Practice of Computer Science*, *Department of Computer Science*, PHD, Univ of Texas At Austin; MA, Texas State Univ-San Marcos; MS, Univ of N Carolina-Chapel Hill; ME, Cornell University; BS, Cornell University

Li-Jen Yu Lester, EDD (lys001@shsu.edu), *Adjunct Faculty; Professor and Associate Dean COSET*, *Department of Computer Science*, EDD, Sam Houston State University; MA, Sam Houston State University; BS, Tahan Institute of Technology

Fan Liang, MS (fxl027@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Univ of Massachusetts-Dartmout; BS, Northwestern Polytechnic Univ; DSC, Towson State University

Qingzhong Liu, PHD (qxl005@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, New Mexico Inst/Mining/Tech; ME, Sichuan University; BE, Northwestern Polytechnic Univ

Xing Liu, MS (xxl020@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Lawrence Inst. of Tc; BE, Shanghai Univ of Engr Science; DSC, Towson State University

Van Vung Pham, PHD (vung.pham@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas Tech University; MS, Politecnico Di Milano; BS, President University

Amar Adnan Rasheed, PHD (axr249@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Northeastern Illinois Univ; BS, University of Bagdad

Narasimha Karpoor Shashidhar, PHD (nks001@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Connecticut; MS, Univ of Connecticut; BE, University of Madras

Gary W. Smith, PHD (gsmith@shsu.edu), *Associate Professor of Computing Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

Cihan Varol, PHD (cxv007@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Arkansas-Little Rock; MS, West Virginia University; BSC, Firat University

Bing Zhou, PHD (bxz003@shsu.edu), *Professor and Chair of Computer Science*, *Department of Computer Science*, PHD, University of Regina; MS, University of Regina; BS, Shandong Univ of Technology

Bachelor of Science, Major in Computing Science (Computing Science, CS)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-computing-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Computing Science, CS)		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specifics Requirements		
MATH 1420	Calculus I [1,2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Math (Advanced)		3
STAT 3379	Statistical Methods in Practice	3
Science (In addition to Component Area III)		8
Major: Foundation		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Computer Organization & Machine Language	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Major: Concentration (Computing Science, 31 hours)		
COSC 2347	Special Topics/Programming	3
COSC 3327	Computer Architecture	3
COSC 4149	Seminar in Computer Science	1
COSC 4316	Compiler Design & Construction	3
COSC 4327	Computer Operating Systems	3
Major: Prescribed Electives		
COSC/DFSC Advanced Electives		6
Electives: Advanced General		
Advance General Electives		12
Minor: Not Required [3]		
Total Hours		**120**

1. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.
2. Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
3. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credit hours may be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-computing-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	COSC 3318	3
COSC 2329	3	COSC 2347	3
HSTY 1301[3]	3	HSTY 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX (p. 91)	3
Degree Specific Requirement: Science	4	COSC 3327	3
MATH 2395	3	COSC 4327	3
General Advanced Electives	6	Degree Specific Requirement: Science	4
		STAT 3379	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
COSC 4318	3	COSC 4149	1
COSC 4316	3	COSC 4319	3
COSC/DFSC Advanced Elective	3	COSC 4349	3
MATH (Advanced)	3	COSC/DFSC Advanced Elective	3
General Advanced Elective	3	General Advanced Elective	3
	15		**13**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement. Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Computing Science (Computing Science, CS) is designed to provide graduates with the following marketable skills:

- Software design.
- Database management.
- Complex problem-solving.
- Application of theoretical principles to the development of technological problems.
- Technical communication.

Bachelor of Science, Major in Computing Science: 4+1 MS Computing and Data Science

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Computing Science, CS): 4+1 MS in Computing and Date Science		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
MATH 1420	Calculus I [1,2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Math (Advanced)		3
STAT 3379	Statistical Methods in Practice	3
Science (In addition to Component Area III)		8
Major: Foundation		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Computer Organization & Machine Language	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3

COSC 4349	Professionalism and Ethics	3
Major: Concentration		
COSC 2347	Special Topics/Programming	3
COSC 3327	Computer Architecture	3
COSC 4149	Seminar in Computer Science	1
COSC 4316	Compiler Design & Construction	3
COSC 4327	Computer Operating Systems	3
COSC/DFSC Advanced Electives		6
Electives: Advanced General		
Advanced General Electives		12
4+1 Master of Science in Computing and Data Science [3]		
COSC 5318	Database Systems	3
COSC 5319	Algorithm Design and Analysis	3
COSC 5340	Special Topics (taken twice)	6
or COSC 5300	Computer Science Internship	
COSC 6319	Software Engineering	3
Track Electives		**9**
Thesis OR Internship Option		6
Thesis		
COSC 6049	Thesis	
COSC 6348	Thesis	
Internship		
COSC 5300	Computer Science Internship	
COSC 6347	Programming Practicum	
Total Hours		**150**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

2 Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

3 Students planning to pursue the 4+1 CDS option must complete the Graduate Application process and be accepted to the MS in CDS program. In order to apply to the 4+1 CDS program students must complete all undergraduate degree plan requirements (minimum of 120 semester credit hours) and all admission requirements. Once a student is accepted to the graduate CDS program, students are eligible to begin the CDS program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate CDS program until the 120 semester credit hours are completed.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who are preparing to apply to gradate CDS programs should earn a "C" or better in their coursework. All CS majors and/or minors must earn a "C" or better for all COSC/DFSC courses and all CDS prospective students must earn a "C" or better in all pre-requisite courses.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
COSC 1436	4	COSC 1437	4

ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	COSC 2347	3
COSC 2329	3	COSC 3318	3
HSTY 1301[3]	3	HSTY 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX (p. 91)	3
Advanced General Electives	6	COSC 3327	3
Degree Specific Requirement: Science	4	COSC 4327	3
MATH (Advanced)	3	STAT 3379	3
		Degree Specific Requirement: Science	4
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
COSC 4316	3	COSC 4149	1	COSC 5340 or 5300 (taken twice)[5]	6
COSC 4318	3	COSC 4319	3		
Advanced General Elective	6	COSC 4349	3		
COSC/DFSC Advanced Elective	3	COSC/DFSC Advanced Elective	3		
MATH (Advanced)	3				
	18		**10**		**6**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
COSC 5318	3	COSC 5319	3	Track Electives	3
Track Elective	6	COSC 6319	3	Thesis OR Internship	3
		Thesis OR Internship Option	3	Thesis	
		Thesis		COSC 6049	
		COSC 6049		COSC 6348	
		COSC 6348		Internship	
		Internship		COSC 5300	
		COSC 5300		COSC 6347	
		COSC 6347			
	9		**9**		**6**

Total Hours: 150

[1] Satisfies Core Curriculum requirement for Component Area I (Communications).

[2] Satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement. Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

[3] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[4] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[5] Students planning to pursue the 4+1 CDS option must complete the Graduate Application process and be accepted to the MS in CDS program. In order to apply to the 4+1 CDS program students must complete all undergraduate degree plan requirements (minimum of 120 semester credit hours) and all admission requirements. Once a student is accepted to the graduate CDS program, students are eligible to begin the CDS program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate CDS program until the 120 semester credit hours are completed.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who are preparing to apply to gradate CDS programs should earn a "C" or better in their coursework. All CS majors and/or minors must earn a "C" or better for all COSC/DFSC courses and all CDS prospective students must earn a "C" or better in all pre-requisite courses.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Computing Science (Computing Science, CS): 4+1 MS in Computing and Data Science is designed to provide graduates with the following marketable skills:

- Software design.
- Database management.
- Complex problem-solving.
- Application of theoretical principles to the development of technological problems.
- Technical communication.
- Identify and solve complex computing problems in information technology, business, medicine, and other essential industries.
- World-class soft skills in complex problem-solving, communication, and creative thinking.
- Strong technical skills and interpersonal skills to work as a group.
- Superior technical writing skills to document and publish their findings.

Bachelor of Science, Major in Computing Science (Information Assurance, IA)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-computing-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Information Assurance, IA)		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		4
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		3
Degree Specific Requirements		
MATH 1420	Calculus I [1, 2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Math (Advanced)		3
STAT 3379	Statistical Methods in Practice	3
Science (In addition to Component Area III) [3]		8
Major: Foundation		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Computer Organization & Machine Language	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Major: Concentration (Information Assurance, 22 hours)		
COSC 2347	Special Topics/Programming	3
COSC 3327	Computer Architecture	3
COSC 4149	Seminar in Computer Science	1
DFSC 1316	Digital Forensics & Information Assurance Fundamentals I	3
DFSC 2316	Digital Forensics & Information Assurance Fundamentals II	3
DFSC 3316	Cryptography and Network Security	3
DFSC 4317	Information Security	3
Major: Prescribed Electives		
DFSC Advanced Electives		3
Electives: Advanced General		
Advanced General Electives		9
Minor: Not Required [4]		
Total Hours		**120**

1 MATH 1420 satisfies the Core Currciulum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirements.

2 Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

3 The Core Curriculum requirement for Component Area III (Life and Physical Science) is satisfied by 8 hours of science. An additional 8 hours of science satisfies the science component of the Degree Specific requirements.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credit hours may be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2, 3]	4	MATH 1430	4
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	COSC 2347	3
COSC 2329	3	COSC 3318	3
HSTY 1301[4]	3	HSTY 1302[4]	3
POLS 2305	3	POLS 2306[5]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX (p. 91)	3
DFSC 1316	3	COSC 3327	3
MATH 2395	3	DFSC 2316	3
Science (in addition to Core)[6]	4	STAT 3379	3
Elective (Advanced)	3	Science (in addition to Core)[6]	4
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
COSC 4318	3	COSC 4149	1
DFSC 3316	3	COSC 4319	3
DFSC Advanced Elective	3	COSC 4349	3
Elective (Advanced)	3	DFSC 4317	3
MATH (Advanced)	3	Elective (Advanced)	3
	15		**13**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).

3 Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[5] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
[6] The Core Curriculum requirement for Component Area III (Life and Physical Science) is satisfied by 8 hours of science. An additional 8 hours of science satisfies the science component of the Degree Specific requirements.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credit hours may be needed above the degree program's stated total semester credit hours.

AppThe Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Computing Science (Information Assurance, IA) is designed to provide graduates with the following marketable skills:

- Solving complex technology-related problems.
- Applying theoretical principles to the software engineering process.
- Technical communication.
- System and network defense.

Bachelor of Science, Major in Computing Science (IA): 4+1 MS Computing and Data Science

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-computing-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Information Assurance): 4+1 MS Computing and Data Science		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1420	Calculus I [1,2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Math (Advanced)		3
STAT 3379	Statistical Methods in Practice	3
Science (In addition to the Component Area III)		8
Major: Foundation		
COSC 1436	Programming Fundamentals I	4

COSC 1437	Programming Fundamentals II	4
COSC 2329	Computer Organization & Machine Language	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Major: Concentration		
COSC 2347	Special Topics/Programming	3
COSC 3327	Computer Architecture	3
COSC 4149	Seminar in Computer Science	1
DFSC 1316	Digital Forensics & Information Assurance Fundamentals I	3
DFSC 2316	Digital Forensics & Information Assurance Fundamentals II	3
DFSC 3316	Cryptography and Network Security	3
DFSC 4317	Information Security	3
DFSC Advanced Electives		3
Electives: Advanced General		
Advanced General Electives		9
4+1 Master of Science in Computing and Data Science [3]		
COSC 5318	Database Systems	3
COSC 5319	Algorithm Design and Analysis	3
COSC 5340	Special Topics (taken twice)	6
or COSC 5300	Computer Science Internship	
COSC 6319	Software Engineering	3
Track Electives		**9**
Thesis OR Internship Option		**6**
Thesis		
COSC 6049	Thesis	
COSC 6348	Thesis	
Internship		
COSC 5300	Computer Science Internship	
COSC 6347	Programming Practicum	
Total Hours		**150**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

2 Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

3 Students planning to pursue the 4+1 CDS option must complete the Graduate Application process and be accepted to the MS in CDS program. In order to apply to the 4+1 CDS program students must complete all undergraduate degree plan requirements (minimum of 120 semester credit hours) and all admission requirements. Once a student is accepted to the graduate CDS program, students are eligible to begin the CDS program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate CDS program until the 120 semester credit hours are completed.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who are preparing to apply to graduate CDS programs should earn a "C" or better in their coursework. All CS majors and/or minors must earn a "C" or better for all COSC/DFSC courses and all CDS prospective students must earn a "C" or better in all pre-requisite courses.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	COSC 2347	3
COSC 2329	3	COSC 3318	3
HSTY 1301[3]	3	HSTY 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX (p. 91)	3
DFSC 1316	3	COSC 3327	3
MATH 2395	3	DFSC 2316	3
Degree Specific Requirement: Science	4	STAT 3379	3
Elective (Advanced)	3	Degree Specific Requirement: Science	4
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
COSC 4318	3	COSC 4149	1	COSC 5340 or 5300 (taken twice)[5]	6
DFSC 3316	3	COSC 4319	3		
Advanced General Elective	6	COSC 4349	3		
DFSC Advanced Elective	3	DFSC 4317	3		
MATH (Advanced)	3				
	18		**10**		**6**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
COSC 5318	3	COSC 5319	3	Track Electives	3
Track Elective	6	COSC 6319	3	Thesis OR Internship	3
		Thesis OR Internship Option	3	Thesis	
		Thesis		COSC 6049	
		COSC 6049		COSC 6348	
		COSC 6348		Internship	
		Internship		COSC 5300	
		COSC 5300		COSC 6347	

	COSC 6347		
9	**9**		**6**

Total Hours: 150

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement. Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/ Government).
5 Students planning to pursue the 4+1 CDS option must complete the Graduate Application process and be accepted to the MS in CDS program. In order to apply to the 4+1 CDS program students must complete all undergraduate degree plan requirements (minimum of 120 semester credit hours) and all admission requirements. Once a student is accepted to the graduate CDS program, students are eligible to begin the CDS program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate CDS program until the 120 semester credit hours are completed.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who are preparing to apply to gradate CDS programs should earn a "C" or better in their coursework. All CS majors and/or minors must earn a "C" or better for all COSC/DFSC courses and all CDS prospective students must earn a "C" or better in all pre-requisite courses.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

AppThe Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Computing Science (Information Assurance, IA): 4+1 MS in Computing and Data Science is designed to provide graduates with the following marketable skills:

- Solving complex technology-related problems.
- Applying theoretical principles to the software engineering process.
- Technical communication.
- System and network defense.
- Identify and solve complex computing problems in information technology, business, medicine, and other essential industries.
- World-class soft skills in complex problem-solving, communication, and creative thinking.
- Strong technical skills and interpersonal skills to work as a group.
- Superior technical writing skills to document and publish their findings.

Bachelor of Science, Major in Computing Science (Information Systems, IS)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-computing-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Information Systems, IS)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		4
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		3
Degree Specific Requirements		
MATH 1420	Calculus I [1, 2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Math (Advanced)		3
STAT 3379	Statistical Methods in Practice	3
Science (In addition to Component Area III) [3]		8
Major: Foundation		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Computer Organization & Machine Language	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Major: Concentration (Information Systems, 19 hours)		
COSC 2327	Introduction to Computer Networks	3
COSC 2347	Special Topics/Programming	3
COSC 3337	Information Systems Design & Management	3
COSC 4149	Seminar in Computer Science	1
COSC 4326	Network Theory	3
Major: Prescribed Electives		
COSC/DFSC Advanced Electives		6
Electives: Advanced General		
Advanced General Electives		12
Minor: Not Required [4]		
Total Hours		**120**

1. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirements.
2. Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
3. The Core Curriculum requirement for Component Area III (Life and Physical Science) is satisfied by 8 hours of science. An additional 8 hours of science satisfies the science component of the Degree Specific requirements.
4. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credit hours may be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2, 3]	4	MATH 1430	4
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	COSC 2329	3
COSC 2347	3	COSC 3318	3
HSTY 1301[4]	3	HSTY 1302[4]	3
POLS 2305	3	POLS 2306[5]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX (p. 91)	3
MATH 2395	3	COSC 2327	3
Science (in addition to Core)[6]	4	COSC 3337	3
Electives (Advanced)	6	STAT 3379	3
		Science (in addition to Core)[6]	4
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
COSC 4318	3	COSC 4149	1
COSC 4326	3	COSC 4319	3
COSC/DFSC Advanced Elective	3	COSC 4349	3
Electives (Advanced)	3	COSC/DFSC Advanced Elective	3
MATH (Advanced)	3	Elective (Advanced)	3
	15		**13**

Total Hours: 120

1. Satisfies Core Curriculum requirement for Component Area I (Communications).
2. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirements.
3. Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6. The Core Curriculum requirement for Component Area III (Life and Physical Science) is satisfied by 8 hours of science. An additional 8 hours of science satisfies the science component of the Degree Specific requirements.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credit hours may be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Computing Science (Information Systems, IS) is designed to provide graduates with the following marketable skills:

- Software design.
- Database management.
- Complex problem-solving.
- Application of theoretical principles to the solution of technological problems.
- Technical communication.

Bachelor of Science, Major in Computing Science (IS): 4+1 MS Computing and Data Science

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-computing-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Information Systems): 4+1 MS Computing and Data Science		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1420	Calculus I [1,2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH (Advanced)		3
STAT 3379	Statistical Methods in Practice	3
Science (In addition to Component Area III)		8
Major: Foundation		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Computer Organization & Machine Language	3
COSC 3318	Data Base Management Systems	3

COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Major: Concentration		
COSC 2327	Introduction to Computer Networks	3
COSC 2347	Special Topics/Programming	3
COSC 3337	Information Systems Design & Management	3
COSC 4149	Seminar in Computer Science	1
COSC 4326	Network Theory	3
COSC/DFSC Advanced Electives		6
Electives: Advanced General		
Advanced General Electives		12
4+1 Master of Science in Computing and Data Science [3]		
COSC 5318	Database Systems	3
COSC 5319	Algorithm Design and Analysis	3
COSC 5340	Special Topics (taken twice)	6
or COSC 5300	Computer Science Internship	
COSC 6319	Software Engineering	3
Track Electives		9
Thesis OR Internship Option		**6**
Thesis		
COSC 6049	Thesis	
COSC 6348	Thesis	
Internship		
COSC 5300	Computer Science Internship	
COSC 6347	Programming Practicum	
Total Hours		**150**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

2 Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.

3 Students planning to pursue the 4+1 CDS option must complete the Graduate Application process and be accepted to the MS in CDS program. In order to apply to the 4+1 CDS program students must complete all undergraduate degree plan requirements (minimum of 120 semester credit hours) and all admission requirements. Once a student is accepted to the graduate CDS program, students are eligible to begin the CDS program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate CDS program until the 120 semester credit hours are completed.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who are preparing to apply to graduate CDS programs should earn a "C" or better in their coursework. All CS majors and/or minors must earn a "C" or better for all COSC/DFSC courses and all CDS prospective students must earn a "C" or better in all pre-requisite courses.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
Component Area VIII (p. 90)	3	COSC 2329	3
COSC 2347	3	COSC 3318	3
HSTY 1301[3]	3	HSTY 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX (p. 91)	3
MATH 2395	3	COSC 2327	3
Advanced General Electives	6	COSC 3337	3
Degree Specific Requirement: Science	4	STAT 3379	3
		Degree Specific Requirement: Science	4
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
COSC 4318	3	COSC 4149	1	COSC 5340 or 5300 (taken twice)[5]	6
COSC 4326	3	COSC 4319	3		
Advanced General Elective	3	COSC 4349	3		
COSC/DFSC Advanced Elective	3	Advanced General Elective	3		
MATH (Advanced)	3	COSC/DFSC Advanced Elective	3		
	15		**13**		**6**

Fifth Year

Fall	Hours	Spring	Hours	Summer	Hours
COSC 5318	3	COSC 5319	3	Track Elective	3
Track Electives	6	COSC 6319	3	Thesis OR Internship	3
		Thesis OR Internship Option	3	Thesis	
		Thesis		COSC 6049	
		COSC 6049		COSC 6348	
		COSC 6348		Internship	
		Internship		COSC 5300	
		COSC 5300		COSC 6347	

	COSC 6347		
9	**9**		**6**

Total Hours: 150

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement. Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/ Government).
5 Students planning to pursue the 4+1 CDS option must complete the Graduate Application process and be accepted to the MS in CDS program. In order to apply to the 4+1 CDS program students must complete all undergraduate degree plan requirements (minimum of 120 semester credit hours) and all admission requirements. Once a student is accepted to the graduate CDS program, students are eligible to begin the CDS program upon completion of all admission requirements. The graduate program will begin in the Summer I semester term each year and will run as a cohort model. Students may apply to the program while coursework is in-progress but may not begin the graduate CDS program until the 120 semester credit hours are completed.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students who are preparing to apply to gradate CDS programs should earn a "C" or better in their coursework. All CS majors and/or minors must earn a "C" or better for all COSC/DFSC courses and all CDS prospective students must earn a "C" or better in all pre-requisite courses.

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Computing Science (Information Systems, IS): 4+1 MS in Computing and Data Science is designed to provide graduates with the following marketable skills:

- Software design.
- Database management.
- Complex problem-solving.
- Application of theoretical principles to the solution of technological problems.
- Technical communication.
- Identify and solve complex computing problems in information technology, business, medicine, and other essential industries.
- World-class soft skills in complex problem-solving, communication, and creative thinking.
- Strong technical skills and interpersonal skills to work as a group.
- Superior technical writing skills to document and publish their findings.

Bachelor of Science, Major in Cybersecurity

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-cybersecurity/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Cybersecurity		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1, 2]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements:		
MATH 1420	Calculus I [1, 2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Methods in Practice	3
Major: Foundation		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Introduction to Computer Networks	3
COSC 2329	Computer Organization & Machine Language	3
COSC 3312	Numerical Methods	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 3321	Digital System Design	3
COSC 4314	Data Mining	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
DFSC 1316	Digital Forensics & Information Assurance Fundamentals I	3
DFSC 2316	Digital Forensics & Information Assurance Fundamentals II	3
DFSC 2320	Hardware Forensics	3
DFSC 3316	Cryptography and Network Security	3
DFSC 4317	Information Security	3
DFSC 4318	Malware	3
DFSC 4338	Cyber Warfare	3
Major: Prescribed Electives		**6**
COSC 3327	Computer Architecture	
COSC 3331	Human-Computer Interaction	
COSC 4318	Advanced Language Concepts	
COSC 4326	Network Theory	
COSC 4327	Computer Operating Systems	
COSC 4332	Computer Graphics	
COSC 4337	Digital Signal Processing	
COSC 4340	Special Topics in Computer Science	
DFSC 4319	Principles of Data Quality	
Electives: General		
General Electives		6

Minor: Not Required [3,4]	
Total Hours	**120**

1 MATH 1420 satisfies the requirement for Component Area II (Mathematics) and 1 semester credit hour for Component Area IX (Component Area Option) as well as the major.
2 Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.
4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-cybersecurity/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)		3 Component Area I (p. 88)	3
Component Area III (p. 89)		4 Component Area III (p. 89)	4
Component Area VI (p. 90)		3 Component Area VI (p. 90)	3
MATH 1420[1,2]		4 MATH 1430	4
	14		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area VII (p. 90)	3
Component Area V (p. 90)		3 Component Area VIII (p. 90)	3
Component Area VII (p. 90)		3 Component Area IX (p. 91)[1]	3
COSC 1436		4 COSC 1437	4
MATH 2395		3 MATH 3379	3
	16		**16**

Third Year

Fall	Hours	Spring	Hours
COSC 2327		3 COSC 3318	3
COSC 2329		3 DFSC 2316	3
COSC 3312		3 DFSC 2320	3
DFSC 1316		3 DFSC 3316	3
Electives: General		3 Electives: General	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
DFSC 4317		3 COSC 4319	3
COSC 4314		3 COSC 4349	3
COSC 3321		3 DFSC 4318	3
COSC 3319		3 DFSC 4338	3
Prescribed Advanced Elective[3]		3 Prescribed Advanced Elective[3]	3
	15		**15**

Total Hours: 120

[1] MATH 1420 satisfies the requirement for Component Area II (Mathematics) and 1 semester credit hour for Component Area IX (Component Area Option) as well as the major.
[2] Students who are not eligible for enrollment in MATH 1420 will have additional mathematics requirements.
[3] Select one of the Prescribed Electives from the below course listing.

Code	Title	Hours
Prescribed Advanced Elective Courses [3]		
COSC 3327	Computer Architecture	3
COSC 3331	Human-Computer Interaction	3
COSC 4318	Advanced Language Concepts	3
COSC 4326	Network Theory	3
COSC 4327	Computer Operating Systems	3
COSC 4332	Computer Graphics	3
COSC 4337	Digital Signal Processing	3
COSC 4340	Special Topics in Computer Science	3
DFSC 4319	Principles of Data Quality	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Cybersecurity is designed to provide graduates with the following marketable skills:

- Information Security.
- Hardware and Network Security.
- Digital Forensics Investigation.
- Incident Response.
- Penetration Testing.
- Solve complex technology-related problems.
- Technical communication.

Bachelor of Science, Major in Software Engineering

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-software-engineering/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Software Engineering		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3

Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
MATH 1420	Calculus I [1 & 2]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Methods in Practice	3
Math Advanced Elective		3
Major: Foundation		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Introduction to Computer Networks	3
COSC 2329	Computer Organization & Machine Language	3
COSC 3312	Numerical Methods	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 3321	Digital System Design	3
COSC 3327	Computer Architecture	3
COSC 4314	Data Mining	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4320	System Modeling and Simulation	3
COSC 4332	Computer Graphics	3
COSC 4347	Embedded System Design and Internet of Things	3
COSC 4349	Professionalism and Ethics	3
Major: Prescribed Electives		
COSC or DFSC Electives (3 hours must be advanced)		6
Electives: General		
General Electives		9
Minor: Not Required [3,4]		
Total Hours		**120**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

2 Students who are not eligible to take MATH 1420 may have additional mathematics requirements.

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-software-engineering/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
COSC 1436		4 COSC 1437	4
ENGL 1301[1]		3 ENGL 1302[1]	3
MATH 1420[2, 3]		4 MATH 1430	4
		15	**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area V (p. 90)	3
Component Area VIII (p. 90)		3 COSC 3312	3
COSC 2329		3 COSC 3318	3
HSTY 1301[4]		3 HSTY 1302[4]	3
POLS 2305[5]		3 POLS 2306[5]	3
		15	**15**

Third Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)[2]		3 COSC 3327	3
COSC 2327		3 COSC 4314	3
COSC 3319		3 COSC 4318	3
COSC 3321		3 MATH 3379	3
MATH 2395		3 General Electives	3
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
COSC 4319		3 COSC 4347	3
COSC 4320		3 COSC 4349	3
COSC 4332		3 COSC/DFSC Advanced Electives	3
General Electives		3 COSC/DFSC Electives	3
MATH Advanced Elective		3 General Electives	3
		15	**15**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
3 Students who are not eligible to take MATH 1420 may have additional mathematics requirements.
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Software Engineering is designed to provide graduates with the following marketable skills:

- Software design.
- Database management.
- Complex problem-solving.
- Application of theoretical principles to the solution of technological problems.
- Technical communication.

Minor in Computer Science: Computer Sciences (CS)

A Computer Science Minor consists of 22 or more hours of Computer Science coursework of which at least 9 hours must be advanced. Students are recommended to take COSC 4349 as an advanced course. Modifications may be made to meet individual student needs as approved by the Computer Science Department Chair. Individualized minor plans are available for students seeking a Computer Science minor for Certification.

Code	Title	Hours
Minor in Computer Science: Computer Sciences (CS)		
Required Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Computer Organization & Machine Language	3
COSC 2347	Special Topics/Programming	3
COSC 3318	Data Base Management Systems	3
COSC 3327	Computer Architecture	3
Advanced COSC/DFSC courses		3
Total Hours		**23**

Minor in Computer Science: Information Assurance (IA)

A Computer Science Minor consists of 22 or more hours of Computer Science coursework of which at least 9 hours must be advanced. Students are recommended to take COSC 4349 as an advanced course. Modifications may be made to meet individual student needs as approved by the Computer Science Department Chair. Individualized minor plans are available for students seeking a Computer Science minor for Certification.

Code	Title	Hours
Minor in Computer Science: Information Assurance (IA):		
Required Courses		
COSC 1436	Programming Fundamentals I	4
COSC 2327	Introduction to Computer Networks	3
DFSC 1316	Digital Forensics & Information Assurance Fundamentals I	3
DFSC 2316	Digital Forensics & Information Assurance Fundamentals II	3
DFSC 3316	Cryptography and Network Security	3
DFSC 4317	Information Security	3
Advanced COSC/DFSC courses		3
Total Hours		**22**

Minor in Computer Science: Information Systems (IS)

A Computer Science Minor consists of 22 or more hours of Computer Science coursework of which at least 9 hours must be advanced. Students are recommended to take COSC 4349 as an advanced course. Modifications may be made to meet individual student needs as approved by the Computer Science Department Chair. Individualized minor plans are available for students seeking a Computer Science minor for Certification.

Code	Title	Hours
Minor in Computer Science: Information Systems (IS):		
Required Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Introduction to Computer Networks	3
COSC 2347	Special Topics/Programming	3
COSC 3318	Data Base Management Systems	3
COSC 3337	Information Systems Design & Management	3
Advanced COSC/DFSC courses		3
Total Hours		**23**

Department of Engineering Technology

Department Chair: Dr. Faruk Yildiz (fxy001@shsu.edu)

Contact Information: (936) 294-1216 and (936) 294-1191

Website: Department of Engineering Technology (http://www.shsu.edu/academics/engineering-technology/)

Mission

The mission of the Engineering Technology Department is to provide an educational program designed to provide academic and practical experiences in the areas of engineering design and development, electronics and computer engineering technology, construction management, mechanical engineering technology, leadership, management, and safety to meet industry challenges and needs.

Highlights

The Department of Engineering Technology has a study abroad program in South Korea and Costa Rica in which students can study Construction and Technology/Engineering Management and can experience the culture and approach to engineering technology education overseas.

The Department of Engineering Technology offers courses in multiple specialized state of the art laboratory and research facilities.

- The Fred L. Pirkle Engineering Technology Center (PIRK) provides space for several specialized classrooms and laboratories.
  - The computer-aided design and drafting (CAD) laboratories provide students with experiences in construction, architectural, and engineering design software tools, design and drafting tools, and rapid prototyping equipment.
  - Electricity, electronics, automation and control, instrumentation, and robotic courses are offered in the Electronics and Robotics laboratories
  - Energy systems courses and workshops are offered in the Energy Systems and Sustainability laboratories as well as the Energy Terrace
  - The Innovation Laboratory provides the infrastructure and cutting edge equipment/tools necessary for capstone research projects
  - Rapid Prototyping lab
  - Wind Tunnel lab
- The Westmoreland Engineering Technology Laboratory (WETL)
  - Drafting and design, surveying, electrical and renewable energy technologies
  - Metal, wood, and concrete construction for residential and commercial structures
  - Manual and computer numerical control (CNC) machining and material testing
  - Plastics injection molding lab
- The Farrington Building (FARR)
  - Engineering mechanics (statics and strength of materials)
  - Engineering materials
- Engineering Technology Annex C
  - Mechanical Engineering Technology Lab
  - Manufacturing Engineering Technology Lab
  - Fluid Powers Lab
  - Heating, Ventilation, and Air Conditioning (HVAC)
- Engineering Technology Annex A
  - Construction Materials Lab
  - Safety Research & Technology Lab
  - Virtual Reality Engineering Lab
- Engineering Technology Annex B
  - Concrete and Masonry Lab

Career Opportunities

- Architectural Design
- Automation and Control
- Computer Hardware and Software
- Construction Management
- Electrical and Mechanical Systems
- Engineering Design
- Industrial Design and Development
- Industrial Education and Training
- Industrial Robotics
- Instrumentation and Data Acquisition Systems
- Manufacturing
- Mechanical Engineering Technology
- Environmental Health and Safety
- Power and Energy Systems
- Product Design
- Sales and Marketing of Industrial Products

Engineering Technology students learn to draw upon the principles of management, leadership, physical and applied sciences, technology of industry, and basic engineering for the solution of problems involving industrial products, services, materials and processes, and the supervision and management of facilities and personnel.

Suggested Minors

Engineering Technology students may choose minors from program areas within the department (see Minor area), or students may opt for a minor outside the department. Advisors may suggest options that complement an Engineering Technology degree, but the choice is up to the student.

Program Specific Requirements

For additional information regarding admission requirements, degree programs, description of courses, and available financial assistance, please refer to the appropriate sections of this catalog. Brochures and information concerning the department and scholarships may be obtained by calling (936) 294-1216 and (936) 294-1191 or writing:

Sam Houston State University
Department of Engineering Technology, PO Box: 2088
Huntsville, Texas 77341-2088

- Bachelor of Science, Major in Construction Management (p. 1018)
- Bachelor of Science, Major in Electronics and Computer Engineering Technology (p. 1021)
- Bachelor of Science, Major in Engineering Design Technology (p. 1024)
- Bachelor of Science, Major in Engineering Technology (p. 1027)
- Bachelor of Science, Major in Engineering Technology: Architectural Design Concentration (p. 1030)
- Bachelor of Science, Major in Engineering Technology: Biomedical Engineering Technology Concentration (p. 1033)
- Bachelor of Science, Major in Engineering Technology: Electronics Concentration (p. 1036)
- Bachelor of Science, Major in Engineering Technology: Environmental, Health, and Safety Management Concentration (p. 1039)
- Bachelor of Science, Major in Engineering Technology: Manufacturing Engineering Technology Concentration (p. 1042)
- Bachelor of Science: Major in Integrated Studies: Land and Urban Property Development Concentration (p. 756)
- Bachelor of Science, Major in Mechanical Engineering Technology (p. 1045)
- Undergraduate Certificate in Occupational Health and Safety Technology (p. 1048)
- Minor in Architectural Design Technology (p. 1049)
- Minor in Construction Management (p. 1050)
- Minor in Electronics (p. 1051)
- Minor in Engineering Design Technology (p. 1052)
- Minor in Environmental, Health, and Safety Management (p. 1053)
- Minor in Manufacturing Engineering Technology (p. 1054)
- Minor in Trades and Industry Certification (p. 1054)

Student Organizations

- Katatronics Robotics (KatatroniX)
- Sam Houston Construction Association (SHCA)
- Renewable and Clean Energy Association (RCEA)
- Society for Women in Excellence in Engineering and Technology (SWEET)
- Engineering Technology Ambassadors
- Virtual Reality (VR)

Internships

The internship program is intended to provide experience-based learning opportunities for students in their respective discipline of study. Students generally seek internship experience at the end of their junior or senior year. Internships may be arranged through student contact with providers or through departmental faculty and staff announcements and postings. All internships must receive departmental approval through application prior to the initiation of the internship. Maximum credit for an internship is six (6) credit hours, and it may be used towards graduation.

Scholarships

The department is pleased to have several scholarships in value up to $5,000 per academic year available for students majoring in engineering technology-related degrees. These scholarships are a one-time award and are awarded on an annual basis. A student may reapply in subsequent years if eligibility requirements are met.

The Scholarships 4 Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) program must be used to apply for departmental scholarships. The program enables you to apply for all scholarships for which you are eligible, including those outside the Department of Engineering Technology. The deadline for departmental scholarships and university-wide scholarships are announced through Scholarships 4 Kats; (http://www.shsu.edu/dept/financial-aid/scholarships/) non-departmental scholarship deadlines vary.

CONTACT:
Department of Engineering Technology (engrtech@shsu.edu)
PO Box 2088, Huntsville, TX 77341-2088
(936) 294-1216 OR (936) 294-1191

Director/Chair: **Faruk Yildiz**

Mahasen Belal Saad Abdelhafez, MA (mba028@shsu.edu), *Assistant Professor of Practice of Engineering Technology*, *Department of Engineering Technology*, MA, Southern Illinois U-Carbondale; BARCH, Cairo University

Emmanuel K Addai, PHD (eka012@shsu.edu), *Lecturer-Pool of Engineering Technology*, *Department of Engineering Technology*, PHD, Otto Von Guericke University; MBA, Univ of Southern Indiana; MS, Otto Von Guericke University; BS, University of Cape Coast

Derli Dias Do Amaral Junior, PHD (dda030@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Southern Methodist University

Iftekhar Ibne Basith, PHD (iib002@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Windsor; MASC, Univ of Windsor; BSEE, Shah Jalal Univ of Sci & Tech

Jennifer Martina Bell, MBA (jmb258@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MBA, Colorado Technical University; BS, Texas Tech University

Shelby Ann Brock, MS (sab014@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, Sam Houston State University; BA, Sam Houston State University

Michael Ulan Genialovich Dakeev, MS (dakeev@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, MS, Univ of Northern Iowa; BS, Intl Black Sea University; DTECH, Univ of Northern Iowa

Ali Dinc, PHD (axd206@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Anadolu University; MBA, University of The People; BS, Middle East Technical Univ

Syed Hasib Akhter Faruqui, PHD (shf006@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Texas-San Antonio; MSC, Univ of Texas-San Antonio; BS, Khulna University of Engineering & Technology Bangladesh

Ebrahim Parvaresh Karan, PHD (epk008@shsu.edu), *Quanta Endowed Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Georgia Inst of Tech; MSC, Tehran Polytechnic; BSC, Tehran Polytechnic

Mehmet Gokhan Koseoglu, MS (mgk019@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, Middle East Technical Univ; BS, Middle East Technical Univ

Junkun Ma, PHD (jxm158@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Calif-San Diego; MS, N China Electric Power Univ; BE, Tsinghua University

Kastan Lee Martin, MS (klm085@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, LSU & A&M College; BS, Sam Houston State University

Alexander Mikishev, PHD (abm017@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, PHD, Perm State University; MS, Perm State University; BS, Perm State University

Momen Ragab Mousa, PHD (mxm363@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, LSU & A&M College; MS, Cairo University; BE, Cairo University

Michael K Murphy, MBA (mkm092@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MBA, Rice University; BA, Saint Mary's-Ca

Suleiman Mahmoud Obeidat, PHD (smo036@shsu.edu), *Fred Pirkle Endowed Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Oklahoma-Norman; MSC, University of Jordan; BS, Jordan University of Sci & Tec

Recayi Pecen, PHD (regpecen@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Wyoming; MS, Univ of Colorado; MSC, Istanbul Univ; BSC, Istanbul Univ

Christopher Justin Rabe, MS (cjr067@shsu.edu), *Assistant Professor of Practice in Engineering Technology*, *Department of Engineering Technology*, MS, Texas A&M-Kingsville; BS, Texas A&M-Kingsville

Eugene Ryman, MS (ejr033@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, New York University; BS, New York University

Rachel Marie Scherer, MA (rmb001@shsu.edu), *Instructional Design Spclst, Adjunct Faculty*, *Department of Engineering Technology*, MA, Sam Houston State University; BS, Sam Houston State University

Mark Scott Solly, MARCH (mss086@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MARCH, Academy of Art University; BS, University of Phoenix

James Frank Spicer, MS (jfs031@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, Texas A&M University; BS, Stephen F Austin University

Min Jae Suh, PHD (mjs068@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Virginia Polytechnic&State U; MS, Stanford University; BENGR, Yeungnam University

Muhammad Hashir Syed, PHD (syed@shsu.edu), *Visiting Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Southern Methodist University; MS, Istanbul Univ; BE, Karachi Institute of Economics & Technology

Terrence R Waugh, PHD (trw006@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Omaha; BA, Creighton University

John Barry WeHunt, ME (jbw037@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, ME, Univ of Texas-Arlington; BS, Purdue University

Euijin Yang, PHD (exy012@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin; BS, Illinois Inst Tech; BE, Chungnam National University

Faruk Yildiz, DIT (fxy001@shsu.edu), *Professor and Chair of Engineering Technology*, *Department of Engineering Technology*, DIT, Univ of Northern Iowa; MS, Cuny City Coll; BS, MKH Dulati Taraz State Univ

Bachelor of Science, Major in Construction Management

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-construction-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Construction Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
or MATH 3379	Statistical Methods in Practice	
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry [1]	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
BUAD 3355	Business Law	3
ETCM 1363	Wood Frame Construction	3
ETCM 2350	Surveying	3
ETCM 2367	Metal Building Systems	3
ETCM 3320	Mechanical, Electrical & Plumbing (MEP) Systems in Buildings	3
ETCM 3353	Construction Project Management	3
or ETEC 4350	Utilities Project Management	
ETCM 3368	Concrete/Masonry Construction	3
ETCM 3371	Civil Design Technology	3
ETCM 3372	Construction Drafting	3
ETCM 4310	Construction Cost Estimating	3
ETCM 4315	Construction Scheduling	3
ETCM 4330	Construction Equipment & Procedures	3
ETCM 4368	Building Materials	3
ETCM 4370	Construction Plans & Documents	3
ETCM 4371	Building Information Modeling	3
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	1-2
ETEC 4384	Supervisory Personnel Practice	3
ETEC 4391	Work Base Mentorship	3
ETEC 4399	Senior Design II [2]	3
ETEE 1340	Introduction to Circuits	3
ETSM 3323	Construction Safety	3
Minor: Not Required [3,4]		
Total Hours		**120-121**

[1] MATH 1314 or MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

[2] B.S. Construction Managment major students are not required to take ETEC 4199 (1 SCH) as a prerequisite for this class.

[3] A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

[4] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-construction-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area VII (p. 90)	3	Component Area IV (p. 89)	3
ETCM 1363	3	ETCM 3371	3
ETDD 1361	3	ETEE 1340	3
ETEC 1010	1-2	MATH 1316[1]	3
MATH 1314[1]	3		
	16-17		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area VII (p. 90)	3
Component Area VI (p. 90)	3	Component Area VIII (p. 90)	3
ETCM 2350	3	ENGL 3330 or MATH 3379	3
ETCM 3320	3	ETCM 3372	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area VI (p. 90)	3	Component Area IX (p. 91)	4
ETCM 2367	3	BUAD 3355	3
ETCM 3368	3	ETCM 4310	3
ETEC 4384	3	ETSM 3323	3
	16		**17**

Fourth Year

Fall	Hours	Spring	Hours
ETCM 3353 or ETEC 4350	3	ETCM 4368	3
ETCM 4315	3	ETEC 4391	3
ETCM 4330	3	ETEC 4399[2]	3
ETCM 4370	3		
ETCM 4371	3		
	15		**9**

Total Hours: 120-121

[1] MATH 1314 or MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

[2] B.S. Construction Management major students are not required to take ETEC 4199 (1 SCH) as a prerequisite for this class.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Construction Management is designed to provide graduates with the following marketable skills:

- Complete a project on time, within budget, and of required quality.
- Interpret construction documents for materials and quantities.
- Demonstrate leadership, teamwork, and effective communication skills.
- Recognize professional, ethical, and social responsibilities, and diversity.
- Administer safety awareness and regulatory compliance.
- Acquire knowledge through applied industry experiences, services, and life-long learning.

Bachelor of Science, Major in Electronics and Computer Engineering Technology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-electronics-and-computer-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Electronics and Computer Engineering Technology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 3379	Statistical Methods in Practice	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
COSC 1436	Programming Fundamentals I [2]	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Introduction to Computer Networks	3
COSC 2329	Computer Organization & Machine Language	3
COSC 3327	Computer Architecture	3
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations [3]	2
ETEC 3340 or ETEC 4340	Solar and Wind Energy Systems Alternative Energy Technology	3
ETEC 4199	Senior Design I	1
ETEC 4391	Work Base Mentorship	3
ETEC 4399	Senior Design II	3
ETEE 1340	Introduction to Circuits	3
ETEE 2320	Circuits and Systems	3
ETEE 3313	Industrial Robotics	3
ETEE 3345	Digital Electronics	3
ETEE 3350	Analog Electronics	3
ETEE 3360	Electrical Power & Machinery	3
ETEE 3373	Control Systems Technology	3
ETEE 3376	Microcontroller Applications	3
ETEE 4351	Automation and Programmable Logic Controllers (PLCs)	3
ETEE 4352	Instrumentation & Interfacing	3
ETEE 4355	Electronic & Digital Communication	3
ETEE 4375	Digital VLSI Design and Field Programmable Gate Arrays	3

Minor: Not Required [4]	
Total Hours	**124**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirements.

2 ECET major students must take a specific class section of COSC 1436 to learn C (C++) programming. Students must consult with academic advisors to find out a class section of COSC 1436 offers C (C++) programming.

3 Electronics & Computer Engineering Technology major students **must take** ETEC 1010 for 2 credit hours section to learn necessary software skills for this major.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours. All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-electronics-and-computer-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IX (p. 91)	3	Component Area IV (p. 89)	3
ETDD 1361	3	COSC 1436[2]	4
ETEC 1010[1]	2	ETEE 2320	3
ETEE 1340	3	MATH 1420[3]	4
	14		**17**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area VI (p. 90)	3
Component Area V (p. 90)	3	Component Area VII (p. 90)	3
COSC 1437	4	Component Area VIII (p. 90)	3
ETEE 3350	3	ENGL 3330	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	17		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area III (p. 89)	4
Component Area III (p. 89)	4	COSC 2329	3
COSC 2327	3	ETEE 3345	3
ETEE 3313	3	ETEE 3360	3
ETEE 3373	3	ETEE 4355	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
COSC 3327	3	ETEC 3340	3
ETEC 4199	1	ETEC 4391	3
ETEE 3376	3	ETEC 4399	3
ETEE 4352	3	ETEE 4351	3
ETEE 4375	3		

MATH 3379	3	
	16	**12**

Total Hours: 124

1 Electronics & Computer Engineering Technology major students **must take** ETEC 1010 for 2 credit hours section to learn necessary software skills for this major.

2 ECET major students must take a specific class section of COSC 1436 to learn C (C++) programming. Students must consult with academic advisors to find out a class section of COSC 1436 offers C (C++) programming.

3 MATH 1420 satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific requirements.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours. All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Electronics and Computer Engineering Technology is designed to provide graduates with the following marketable skills:

- Select and effectively apply modern electric, electronics, and computer devices and systems.
- Design and develop analog, digital, microcontroller and communication circuits and systems; test and troubleshoot for effective and efficient operations.
- Embed state-of-the-art automation, robotics, instrumentation, and data acquisition hardware and software tools into industrial environments.
- Prepare technical reports, product manuals, and testing instructions; and communicate effectively.

Bachelor of Science, Major in Engineering Design Technology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-design-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Engineering Design and Technology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry [1]	3
MATH 3379	Statistical Methods in Practice	3
or ENGL 3330	Introduction to Technical Writing	
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETDD 2363	Architectural Design	3
ETDD 3310	Product Design & Development	3
ETDD 3366	Intro to Virtual and Augmented Reality	3
ETDD 3379	Industrial Design & Drafting	3
ETDD 4339	Advanced Computer-Aided Drafting and Modeling	3
ETDD 4380	Material Hand & Plant Layout	3
ETDD 4388	3-Dimensional Parametric Design	3
ETEC 1010	Engineering Foundations	1
ETEC 1371	Descriptive Geometry	3
or ETEC 1366	Machining Technology I	
ETEC 3367	Engineering Materials Techniques	3
ETEC 3374	Time And Motion Study	3
or ETEC 3300	Technology Innovations	
ETEC 3375	Statics	3
ETEC 4384	Supervisory Personnel Practice	3
or ETEC 4376	Strength of Materials	
ETEC 4391	Work Base Mentorship	3
ETEC 4399	Senior Design II [3]	3
ETEE 1340	Introduction to Circuits	3
ETSM 3386	Industrial Safety	3
Minor: Required [4]		
Minor		6
Minor (9 hours advanced)		9
Total Hours		**123**

1 MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific Requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
2 Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.
3 ETEC 4199 is a prerequisite for ETEC 4399.
4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-design-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IX (p. 91)[1]	4	Component Area IV (p. 89)	3
ETDD 1361	3	ETEC 1371 or 1366	3
ETEC 1010	1	ETEE 1340	3
MATH 1314[1]	3	MATH 1316[1]	3
	14		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area VI (p. 90)	3
ETDD 2363	3	Component Area VII (p. 90)	3
ETDD 3310	3	Component Area VIII (p. 90)	3
PHYS 1301 & PHYS 1101	4	MATH 3379 or ENGL 3330	3
Minor[2]	3	PHYS 1302 & PHYS 1102	4
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[3]	4	Component Area III (p. 89)[3]	4
ETDD 3366	3	Component Area V (p. 90)	3
ETDD 3379	3	ETEC 3367	3
ETEC 3375	3	ETEC 3374 or 3300	3
Minor[2]	3	ETSM 3386	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	ETDD 4388	3
ETDD 4339	3	ETEC 4391	3
ETDD 4380	3	ETEC 4399[4]	3
ETEC 4384 or 4376	3	Minor Advanced[2]	6
Minor Advanced[2]	3		
	15		**15**

Total Hours: 123

[1] MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific Requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
[2] All minors can be paired with this degree program.
[3] Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.
[4] ETEC 4199 is a perquisite for ETEC 4399.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Engineering Design Technology is designed to provide graduates with the following marketable skills:

- Conduct engineering design using Computer Aided Design (CAD) tools.
- Fabricate prototypes via various manufacturing processes and equipment.
- Communicate effectively in both written and verbal forms.
- Work collaboratively in a team environment.

Bachelor of Science, Major in Engineering Technology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
or MATH 3379	Statistical Methods in Practice	
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry [1]	3-4
or PHYS 1401	Physics Boot Camp	
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETDD 3310	Product Design & Development	3
or ETEE 3313	Industrial Robotics	
ETDD 4380	Material Hand & Plant Layout	3
ETDD 4388	3-Dimensional Parametric Design	3
or ETDD 4339	Advanced Computer-Aided Drafting and Modeling	
ETEC 1010	Engineering Foundations	1
ETEC 1371	Descriptive Geometry	3
or ETEC 1366	Machining Technology I	
ETEC 2382	Manufacturing Processes	3
or ETEC 2366	Machining Technology II	
ETEC 3367	Engineering Materials Techniques	3
ETEC 3374	Time And Motion Study	3
or ETEC 3300	Technology Innovations	
ETEC 4315	Quality Assurance and Control	3
ETEC 4340	Alternative Energy Technology	3
or ETEC 3340	Solar and Wind Energy Systems	
ETEC 4384	Supervisory Personnel Practice	3
or ETEC 4355	Agile Technology Framework	
ETEC 4399	Senior Design II [2]	3
ETEC 4391	Work Base Mentorship	3
ETEE 1340	Introduction to Circuits	3
ETSM 3386	Industrial Safety	3
Minor: Required [3]		
Minor		6

Minor (12 hours advanced)	12
Total Hours	**120-121**

1 MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific Requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 ETEC 4199 is a prerequisite for ETEC 4399.

3 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IX (p. 91)	4	Component Area IV (p. 89)	3
ETDD 1361	3	ETEC 1371 or 1366	3
ETEC 1010	1	ETEE 1340	3
MATH 1314[1]	3	MATH 1316 or PHYS 1401[1]	3-4
	14		**15-16**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
ETEC 2382 or 2366	3	Component Area VIII (p. 90)	3
PHYS 1301 & PHYS 1101	4	ENGL 3330 or MATH 3379	3
Minor[3]	3	PHYS 1302 & PHYS 1102	4
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area VII (p. 90)	3	ETDD 3310 or ETEE 3313	3
ETDD 4380	3	ETEC 3374 or 3300	3
ETEC 3367	3	ETEC 4384 or 4355	3
Minor[3]	3	Minor Advanced[3]	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
ETDD 4388 or 4339	3	ETEC 4315	3
ETEC 4340 or 3340	3	ETEC 4391	3
ETSM 3386	3	ETEC 4399[2]	3

Minor Advanced[3]	6 Minor Advanced[3]	3
	15	**12**

Total Hours: 120-121

1 MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific Requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 ETEC 4199 is a prerequisite for ETEC 4399.

3 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Engineering Technology is designed to provide graduates with the following marketable skills:

- Communicate technology problem solutions.
- Apply technology tools in applied engineering and technology.
- Analyze data and notice trends to successfully provide solutions.
- Team-based skills including leadership and conflict resolution abilities.
- Prepare to engage in lifelong learning.

Bachelor of Science, Major in Engineering Technology - Concentration in Architectural Design Technology (ADT)

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology - Concentration in Architectural Design Technology (ADT)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
or MATH 3379	Statistical Methods in Practice	
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry [1]	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETDD 3310	Product Design & Development	3
ETDD 4339	Advanced Computer-Aided Drafting and Modeling	3
ETDD 4380	Material Hand & Plant Layout	3
ETEC 1010	Engineering Foundations	1
ETEC 1371	Descriptive Geometry	3
ETEC 2382	Manufacturing Processes	3
ETEC 3367	Engineering Materials Techniques	3
ETEC 3374	Time And Motion Study	3
ETEC 3375	Statics	3
ETEC 4199	Senior Design I	1
ETEC 4340	Alternative Energy Technology	3
ETEC 4384	Supervisory Personnel Practice	3
ETEC 4391	Work Base Mentorship	3
ETEC 4399	Senior Design II	3
Major: Concentration (Architectural Design Technology)		
ETCM 1363	Wood Frame Construction	3
ETCM 3372	Construction Drafting	3
or ETDD 3366	Intro to Virtual and Augmented Reality	
ETCM 4371	Building Information Modeling	3
ETDD 2363	Architectural Design	3
ETEC 3340	Solar and Wind Energy Systems	3
INDS 1360	Applied Design Theory	3
INDS 2365	Digital Drawing for Interior Design	3
INDS 3377	Interior Codes & Standards	3

Minor: Not Required [3, 4]	
Total Hours	**121**

1 MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific Requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IX (p. 91)[1]	4	Component Area IV (p. 89)	3
ETDD 1361	3	Component Area V (p. 90)	3
ETEC 1010	1	ETEC 1371	3
MATH 1314[1]	3	MATH 1316[1]	3
	14		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area VI (p. 90)	3
Component Area VIII (p. 90)	3	Component Area VII (p. 90)	3
ETCM 1363	3	ETDD 2363	3
INDS 1360	3	ETEC 2382	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[2]	4	Component Area III (p. 89)[2]	4
Component Area VII (p. 90)	3	ENGL 3330 or MATH 3379	3
ETDD 3310	3	ETEC 3367	3
ETEC 3374	3	ETEC 3375	3
INDS 2365	3	INDS 3377	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
ETCM 3372 or ETDD 3366	3	ETCM 4371	3
ETDD 4380	3	ETDD 4339	3
ETEC 3340	3	ETEC 4340	3
ETEC 4199	1	ETEC 4384	3
ETEC 4391	3	ETEC 4399	3
	13		**15**

Total Hours: 121

[1] MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific Requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

[2] Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Engineering Technology - Concentration in Architectural Design Technology (ADT) is designed to provide graduates with the following marketable skills:

- Integrated Design Proficiency: Skill in creating detailed architectural plans, utilizing 3D modeling tools (e.g., AutoCAD, SketchUp, Revit), and coordinating seamless integration of structural, electrical, and mechanical designs.
- Code Compliance and Regulations: Ability to navigate and apply building codes and regulations effectively, ensuring designs meet local and national standards.
- Project Management and Communication: Competence in project management, including estimating and scheduling, coupled with strong communication skills to convey design concepts convincingly to stakeholders.
- Sustainable Design and Energy Modeling: Knowledge of sustainable design principles and practices coupled with the ability to use energy modeling tools for assessing environmental impacts in architectural projects.
- Problem-Solving and Adaptability: Capacity to identify and solve complex design challenges coupled with a commitment to continuous learning and adaptability to evolving industry trends and technologies.

B.S. in Engineering Technology: Biomedical Engineering Technology Concentration

Code	Title	Hours
B.S. in Engineering Technology: Biomedical Engineering Technology Concentration		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
or MATH 3379	Statistical Methods in Practice	
KINE 2115	Lifetime Health and Wellness	1
MATH 1420	Calculus I [1]	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETDD 3310	Product Design & Development	3
or ETEE 3313	Industrial Robotics	
ETDD 4388	3-Dimensional Parametric Design	3
ETEC 1010	Engineering Foundations	2
ETEC 3367	Engineering Materials Techniques	3
or ETEE 3376	Microcontroller Applications	
ETEC 4199	Senior Design I	1
ETEC 4340	Alternative Energy Technology	3
or ETEE 4352	Instrumentation & Interfacing	
ETEC 4384	Supervisory Personnel Practice	3
or ETEE 4355	Electronic & Digital Communication	
ETEC 4391	Work Base Mentorship	3
ETEC 4399	Senior Design II	3
ETEE 1340	Introduction to Circuits	3
ETSM 3386	Industrial Safety	3
Major Concentration: Biomedical		
BIOL 1406	General Biology I	4
BIOL 2403	Human Anatomy & Physiology I [2]	4
BIOL 2404	Human Anatomy & Physiology II [2]	4
CHEM 1407	Introduction to Organic and Biochemistry	4
or CHEM 1411	General Chemistry I	
COSC 1436	Programming Fundamentals I [3]	4
ETEE 2320	Circuits and Systems	3
ETEE 3345	Digital Electronics	3
ETEE 3350	Analog Electronics	3
ETEC 4374	Biomedical Instrumentation I	3

ETEC 4375	Biomedical Instrumentation II	3
ETEC 4377	Biomedical Imaging	3
ETME 3378	Applied Fluid Mechanics	3
Minor: Not Required [4]		
Total Hours		**120**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement as well as one semester credit hour of Core Curriculum Component Area IX (Component Area Option).

2 BIOL 2403 and BIOL 2404 and BIOL 1406 satisfy the Core Curriculum requirement for Component Area III and **must** be taken for the BMET concentration.

3 ECET major students must take a specific class section of COSC 1436 to learn C (C++) programming. Students must consult with academic advisors to find out a class section of COSC 1436 offers C (C++) programming.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IX (p. 91)[1]	3	Component Area IV (p. 89)	3
ETDD 1361	3	COSC 1436[2]	4
ETEC 1010	2	MATH 1420[1]	4
ETEE 1340	3		
KINE 2115	1		
	15		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
CHEM 1407 or 1411	4	Component Area VIII (p. 90)	3
ETEE 2320	3	BIOL 1406	4
PHYS 1301 & PHYS 1101	4	ETEE 3350	3
		PHYS 1302 & PHYS 1102	4
	14		**17**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area V (p. 90)	3
BIOL 2403[3]	4	Component Area VI (p. 90)	3
ENGL 3330 or MATH 3379	3	BIOL 2404[3]	4
ETEE 3313 or ETDD 3310	3	ETEC 4374	3
ETEE 4352 or ETEC 4340	3	ETEE 3345	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
ETDD 4388	3	ETEC 4375	3
ETEC 4199	1	ETEC 4391	3

ETEC 4377	3 ETEC 4399	3
ETEE 3376 or ETEC 3367	3 ETEE 4355 or ETEC 4384	3
ETME 3378	3	
ETSM 3386	3	
	16	**12**

Total Hours: 120

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement as well as one semester credit hour of Core Curriculum Component Area IX (Component Area Option).

2 ECET major students must take a specific class section of COSC 1436 to learn C (C++) programming. Students must consult with academic advisors to find out a class section of COSC 1436 offers C (C++) programming.

3 BIOL 2403 and BIOL 2404 and BIOL 1406 satisfy the Core Curriculum requirement for Component Area III and **must** be taken for the BMET concentration.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Engineering Technology: Biomedical Concentration is designed to provide graduates with the following marketable skills:

- Employ effective and independent work habits and be a team player.
- Use effective oral and written communication skills.
- Solve and troubleshoot problems by thinking and analyzing critically.
- Identify and evaluate scientific literature and relevant databases to support theories/applications.
- Apply quality control to defend particular interpretations and conclusions of data.
- Demonstrate knowledge of medical device design and validation.

Bachelor of Science, Major in Engineering Technology - Concentration in Electronics

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology - Concentration in Electronics		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
or MATH 3379	Statistical Methods in Practice	
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry [1]	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	1
ETEC 3340	Solar and Wind Energy Systems	3
or ETEC 4340	Alternative Energy Technology	
ETEC 4199	Senior Design I	1
ETEC 4384	Supervisory Personnel Practice	3
or ETEE 3313	Industrial Robotics	
ETEC 4391	Work Base Mentorship (internship)	3
ETEC 4399	Senior Design II	3
ETEE 1340	Introduction to Circuits	3
ETEE 2320	Circuits and Systems	3
ETEE 3345	Digital Electronics	3
ETEE 3350	Analog Electronics	3
ETEE 3360	Electrical Power & Machinery	3
ETEE 3373	Control Systems Technology	3
ETEE 3376	Microcontroller Applications	3
ETEE 4351	Automation and Programmable Logic Controllers (PLCs)	3
ETEE 4352	Instrumentation & Interfacing	3
ETSM 3386	Industrial Safety	3
Minor: Required [2]		
Minor		6
Minor (12 hours advanced)		12
Total Hours		**121**

[1] MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

[2] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IX (p. 91)[1]	4	Component Area IV (p. 89)	3
ETEC 1010	1	ETDD 1361	3
ETEE 1340	3	ETEE 2320	3
MATH 1314[1]	3	MATH 1316[1]	3
	14		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area VI (p. 90)	3
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
ETEC 3340 or 4340	3	Component Area VIII (p. 90)	3
ETEE 3350	3	ENGL 3330 or MATH 3379	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area VII (p. 90)	3	ETEC 4384 or ETEE 3313	3
ETEE 3373	3	ETSM 3386	3
Minor[2]	6	Minor Advanced[2]	6
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
ETEC 4199	1	ETEC 4391	3
ETEE 3345	3	ETEC 4399	3
ETEE 3376	3	ETEE 3360	3
ETEE 4351	3	ETEE 4352	3
Minor Advanced[2]	6		
	16		**12**

Total Hours: 121

[1] MATH 1314, MATH 1316, MATH 1324, and MATH 1420 satisfy the Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 and MATH 1316 also satisfy the Degree Specific requirement. MATH 1420 will satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

[2] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Engineering Technology - Concentration in Electronics is designed to provide graduates with the following marketable skills:

- Select and effectively apply modern electric, electronics, controls, and computer devices and systems.
- Test and troubleshoot for effective and efficient operations of analog, digital, microcontroller and communication circuits and systems.
- Embed state-of-the-art automation, robotics, instrumentation, and data acquisition hardware and software tools into industrial environments.
- Prepare technical reports, product manuals, and testing instructions and communicate effectively.
- Learn about and practice safety and supervisory skills related to electronics.

Bachelor of Science, Major in Engineering Technology - Concentration in Environmental, Health, and Safety Management

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology - Concentration in Environmental, Health, and Safety Management		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1,2]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
ENGL 3330	Introduction to Technical Writing	3
MATH 1314	Pre Calculus Algebra [1,2]	3
MATH 1316	Plane Trigonometry [1,2]	3
MATH 3379	Statistical Methods in Practice	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	1
ETEC 3374	Time And Motion Study	3
ETEC 4199	Senior Design I	1
ETEC 4384	Supervisory Personnel Practice	3
ETEC 4391	Work Base Mentorship (internship)	3
ETEC 4399	Senior Design II	3
ETEE 1340	Introduction to Circuits	3
ETSM 2310	Introduction to Occupational Safety	3
ETSM 3323	Construction Safety	3
ETSM 3363	Safety Program Management	3
ETSM 3371	Systems Safety & Risk Assessment	3
ETSM 3372	Occupational Safety Standards	3
ETSM 3380	Accident Investigation & Analysis	3
ETSM 3386	Industrial Safety	3
ETSM 4313	Industrial Hygiene	3
ETSM 4335	Human Factors & Ergonomics	3
ETSM 4345	Industrial Fire Safety	3
ETSM 4375	Safety Hazard Mitigation	3
ETSM 4377	Environmental Safety Management	3
ETSM 4379	Emergency Management & Planning	3
INED 4310	Occupational Human Relations in Career Technical Education	3
Total Hours		**121**

1 MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

2 If taking MATH 1314, MATH 1316, or MATH 1324 to satisfy the Core Curriculum requirement for Component Area II, then take 4 hours in Component Area IX. If taking MATH 1420, then take 3 hours in Component Area IX. Total hours must sum to 120.

[3] All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)[1]	3	Component Area I (p. 88)[1]	3
Component Area IX (p. 91)[2]	3	Component Area VI (p. 90)[4]	3
ETDD 1361	3	Component Area IX (p. 91)[2]	1
ETEC 1010	1	ETEE 1340	3
MATH 1314[2,3]	3	ETSM 2310	3
		MATH 1316[2,3]	3
	13		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area III (p. 89)	4
Component Area V (p. 90)	3	Component Area VII (p. 90)[5]	3
Component Area VI (p. 90)[4]	3	Component Area VIII (p. 90)	3
ETSM 3323	3	ENGL 3330	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	16		**17**

Third Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)[5]	3	Component Area III (p. 89)	4
ETSM 3363	3	ETEC 3374	3
ETSM 3386	3	ETSM 3371	3
INED 4310	3	ETSM 3372	3
MATH 3379	3	ETSM 4345	3
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
ETEC 4199	1	ETEC 4384	3
ETSM 3380	3	ETEC 4391	3
ETSM 4313	3	ETEC 4399	3
ETSM 4335	3	ETSM 4379	3
ETSM 4375	3		
ETSM 4377	3		
	16		**12**

Total Hours: 121

[1] ENGL 1301 and ENGL 1302 satisfy the Core Curriculum requirement for Component Area I (Communication).

[2] If taking MATH 1314, MATH 1316, or MATH 1324 to satisfy the Component Area II requirement, then take 4 hours in Component Area IX. If taking MATH 1420, then take 3 hours in Component Area IX. Total hours must sum to 120.

[3] MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

[4] HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).
[5] POLS 2305 and POLS 2306 satisfy the Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Engineering Technology - Concentration in Safety Management is designed to provide graduates with the following marketable skills:

- Apply concepts of safety and risk management to prioritize resources, reduce costs and minimize occupational hazards.
- Anticipate, recognize, evaluate, and control hazardous conditions that affect workers, properties and/or work environments.
- Demonstrate safety leadership skills, teamwork, and effective communication skills.
- Identify and apply applicable safety standards, regulations, and codes in industrial settings.
- Apply engineering technology and strategies to resolve issues of ethics and social responsibility.
- Integrate professional, ethical, and social responsibilities as a professional in the field.
- Obtain continuous learning skills through applied industry experiences, safety case studies, and past incident records.

Bachelor of Science, Major in Engineering Technology - Concentration in Manufacturing Engineering Technology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology - Concentration in Manufacturing Engineering Technology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirement		
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry [1]	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETEC 1010	Engineering Foundations	1
ETDD 1361	Engineering Graphics	3
ETEE 1340	Introduction to Circuits	3
Major: Required		
ETDD 3310	Product Design & Development	3
or ETEC 4376	Strength of Materials	
ETDD 3379	Industrial Design & Drafting	3
ETDD 4380	Material Hand & Plant Layout	3
ETDD 4388	3-Dimensional Parametric Design	3
or ETDD 4339	Advanced Computer-Aided Drafting and Modeling	
ETEC 1366	Machining Technology I	3
ETEC 2366	Machining Technology II	3
ETEC 2382	Manufacturing Processes	3
ETEC 3367	Engineering Materials Techniques	3
ETEC 3374	Time And Motion Study	3
ETEC 3375	Statics	3
ETEC 4199	Senior Design I	1
ETEC 4384	Supervisory Personnel Practice	3
ETEC 4391	Work Base Mentorship	3
ETEE 2320	Circuits and Systems	3
Major: Concentration (Manufacturing Engineering Technology)		
ETEE 3313	Industrial Robotics	3
ETEC 3344	Computer Integrated Manufacturing	3
ETEC 3382	Manufacturing Processes II	3
ETSM 3386	Industrial Safety	3
ETEC 4315	Quality Assurance and Control	3
ETEE 4351	Automation and Programmable Logic Controllers (PLCs)	3

ETEC 4399	Senior Design II	3
Minor: Not Required [2, 3]		
Total Hours		**121**

1 If MATH 1314 or MATH 1316 are used to satisfy the Core Curriculum requirement for Component Area II (Mathematics), then an additional 3 hours in Math will be needed to meet the 120 total semester credit hour requirement.

2 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

3 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IX (p. 91)[1]	4	Component Area IV (p. 89)	3
ETDD 1361	3	ETEC 1366	3
ETEC 1010	1	ETEE 1340	3
MATH 1314[1]	3	MATH 1316[1]	3
	14		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
Component Area V (p. 90)	3	Component Area VI (p. 90)	3
ETEC 2366	3	ETEC 2382	3
ETEE 2320	3	ETDD 3379	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	17		**17**

Third Year

Fall	Hours	Spring	Hours
Component Area VI (p. 90)	3	Component Area VII (p. 90)	3
Component Area VII (p. 90)	3	ETDD 3310 or ETEC 4376	3
ETEC 3367	3	ETDD 4380	3
ETEC 3374	3	ETEE 3313	3
ETEC 3375	3	ETSM 3386	3
	15		**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	ETEC 4315	3
ETDD 4339 or 4388	3	ETEC 4391	3
ETEC 3344	3	ETEC 4399	3
ETEC 3382	3	ETEE 4351	3
ETEC 4199	1		

ETEC 4384	3	
	16	**12**

Total Hours: 121

[1] If MATH 1314 or MATH 1316 are used to satisfy the Core Curriculum requirement for Component Area II (Mathematics), then an additional 3 hours in Math will be needed to meet the 120 total semester credit hour requirement.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The BS in Engineering Technology - Manufacturing Engineering Technology Concentration is designed to provide graduates with the following marketable skills:

- Knowledge and hands-on experience in various manufacturing processes such as machining, plastic processing, and 3D printing.
- Skills in product design and development and the product life cycle.
- Skills in the plant layout for high efficiency production.
- Skills in material testing and properties measurement following industrial standards.
- Automation and control of manufacturing equipment.
- Demonstrate leadership, teamwork, and effective communication skills.

Bachelor of Science, Major in Mechanical Engineering Technology

Additional information: Reference the (https://www.shsu.edu/programs/bachelor-of-science-in-mechanical-engineering-technology/)Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-mechanical-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Mechanical Engineering Technology		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
COSC 1436	Programming Fundamentals I [2]	4
MATH 1420	Calculus I [1]	4
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETDD 4388	3-Dimensional Parametric Design	3
ETEC 1010	Engineering Foundations [3]	2
ETEC 2382	Manufacturing Processes	3
ETEC 3367	Engineering Materials Techniques	3
ETEC 3375	Statics	3
ETEC 4199	Senior Design I	1
ETEC 4376	Strength of Materials	3
ETEC 4399	Senior Design II	3
ETEE 1340	Introduction to Circuits	3
ETEE 2320	Circuits and Systems	3
ETEE 3360	Electrical Power & Machinery	3
ETEE 3373	Control Systems Technology	3
ETME 2305	Engineering Analysis Methods	3
ETME 3376	Engineering Dynamics	3
ETME 3378	Applied Fluid Mechanics	3
ETME 4376	Applied Thermodynamics	3
ETME 4378	HVAC Systems	3
ETME 4385	Mechanical Design	3
ETSM 3386	Industrial Safety	3
Major: Prescribed Electives		
Select three of the following:		9
ETDD 3310	Product Design & Development	
ETDD 4380	Material Hand & Plant Layout	
ETEC 3340	Solar and Wind Energy Systems	
ETEC 3382	Manufacturing Processes II	
ETEC 4315	Quality Assurance and Control	

ETEC 4340	Alternative Energy Technology
ETEC 4391	Work Base Mentorship
ETEE 3376	Microcontroller Applications
ETEE 4351	Automation and Programmable Logic Controllers (PLCs)
Minor: Not Required [4,5]	
Total Hours	**120**

1 MATH 1420 requires the following prerequisites: C or better in MATH 1410, or C or better in MATH 1410, or an A or B in AP Calculus, or a 660 on the new Math SAT, or a 28 on the Math ACT, or a 276 on the Next- Generation Advanced Algebra and Functions ACCUPLACER. Satisfies the Core Curriculum requirement Component Area II (Mathematics) as well as one hour of Component Area IX (Component Area Option).

2 ETME major students must take a specific class section of COSC 1436 to learn C (C++) programming. Students must consult with academic advisors to learn which class section of COSC 1436 offers C (C++) programming.

3 Mechanical Engineering Technology major students must take ETEC 1010 for two credit hours section to learn necessary software skills for this major.

4 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

5 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-mechanical-engineering-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area I (p. 88)	3	Component Area I (p. 88)	3
Component Area IV (p. 89)	3	Component Area III (p. 89)	4
Component Area VI (p. 90)	3	ETEE 1340	3
ETDD 1361	3	MATH 1420[2]	4
ETEC 1010[1]	2		
	14		**14**

Second Year

Fall	Hours	Spring	Hours
Component Area VII (p. 90)	3	Component Area VI (p. 90)	3
COSC 1436[3]	4	Component Area VII (p. 90)	3
ETEC 2382	3	ETEE 2320	3
PHYS 1301 & PHYS 1101	4	ETME 2305	3
		PHYS 1302 & PHYS 1102	4
	14		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area III (p. 89)	4
Component Area IX (p. 91)[2]	3	ETEE 3360	3
ETEC 3367	3	ETEE 3373	3
ETEC 3375	3	ETME 3376	3
ETSM 3386	3	ETME 3378	3
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 ETEC 4399	3
ETDD 4388		3 ETME 4376	3
ETEC 4199		1 ETME 4378	3
ETEC 4376		3 ETME 4385	3
Prescribed Electives[4]		6 Prescribed Electives[4]	3
	16		**15**

Total Hours: 120

1 Mechanical Engineering Technology major students must take ETEC 1010 for two credit hours section to learn necessary software skills for this major.

2 MATH 1420 requires the following prerequisites: C or better in MATH 1410, or C or better in MATH 1410, or an A or B in AP Calculus, or a 660 on the new Math SAT, or a 28 on the Math ACT, or a 276 on the Next- Generation Advanced Algebra and Functions ACCUPLACER. Satisfies the Core Curriculum requirement Component Area II (Mathematics) as well as one hour of Component Area IX (Component Area Option).

3 ETME major students must take a specific class section of COSC 1436 to learn C (C++) programming. Students must consult with academic advisors to learn which class section of COSC 1436 offers C (C++) programming.

4 See the course list of Prescribed Electives in the table below.

Code	Title	Hours
Major: Prescribed Electives [4]		
ETDD 3310	Product Design & Development	3
ETDD 4380	Material Hand & Plant Layout	3
ETEC 3340	Solar and Wind Energy Systems	3
ETEC 3382	Manufacturing Processes II	3
ETEC 4315	Quality Assurance and Control	3
ETEC 4340	Alternative Energy Technology	3
ETEC 4391	Work Base Mentorship	3
ETEE 3376	Microcontroller Applications	3
ETEE 4351	Automation and Programmable Logic Controllers (PLCs)	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Mechanical Engineering Technology is designed to provide graduates with the following marketable skills:

- Advanced mechanical discipline knowledge.
- Application of design and analysis concepts to mechanical engineering and technology.
- Familiarity with manufacturing processes and equipment.
- Knowledge of industry standards, quality assurance, and ethics.

- Critical thinking skills.
- Ability to logically solve practical problems.

Undergraduate Certificate in Occupational Health and Safety Technology

The Undergraduate Certificate in Occupational Health and Safety Technology is designed to meet the urgent demand for skilled professionals in the dynamic occupational safety and health field. Catering to industries like manufacturing, construction, oil and gas, healthcare, energy, and utilities, which prioritize workforce well-being and adherence to strict safety regulations, this program effectively combines theoretical knowledge with practical application. Graduates gain a deep understanding of current regulations and safety practices, preparing them to lead safety initiatives across various work environments.

Code	Title	Hours
Undergraduate Certificate in Occupational Health and Safety Technology		
Required Courses		
ETEC 1010	Engineering Foundations	1-2
ETSM 2310	Introduction to Occupational Safety	3
ETSM 3363	Safety Program Management	3
ETSM 3386	Industrial Safety	3
ETSM 4313	Industrial Hygiene	3
ETSM 4375	Safety Hazard Mitigation	3
or ETSM 4379	Emergency Management & Planning	
Total Hours		**16-17**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Occupational Health and Safety Technology is designed to provide graduates with the following marketable skills:

- **Hazard Identification and Risk Assessment**: Students will develop the skill to identify potential hazards in the workplace and conduct thorough risk assessments. This involves understanding various types of hazards (physical, chemical, biological, ergonomic) and applying methodologies to evaluate their potential impact on worker safety and health.
- **Regulatory Compliance and Legal Knowledge**: A key marketable skill is the ability to understand and navigate the complex landscape of occupational safety and health regulations. This includes knowledge of OSHA standards, state and federal regulations, and the ability to ensure that workplaces are compliant with these laws, thus reducing the risk of legal issues and penalties.
- **Safety Program Development and Implementation**: Students will learn how to develop and implement comprehensive safety programs. This skill involves creating policies, procedures, and training modules that are tailored to specific workplace environments to promote safety and health.
- **Emergency Response Planning and Execution**: The ability to plan and execute effective emergency response procedures is crucial. Students will gain skills in developing emergency plans, conducting drills, and coordinating response efforts in case of workplace incidents or crises.
- **Communication and Training Skills**: A marketable skill in this field is the ability to effectively communicate safety protocols and train employees. This includes developing training materials, conducting workshops or seminars, and using communication tools to foster a culture of safety within an organization.

Minor in Architectural Design Technology

The Minor in Architectural Design Technology requires a total of 21 hours of coursework, which includes the following:

Code	Title	Hours
Minor in Architectural Design Technology		
Required Courses		
ETCM 3372	Construction Drafting	3
ETCM 4371	Building Information Modeling	3
ETDD 1361	Engineering Graphics	3
ETDD 2363	Architectural Design	3
INDS 3377	Interior Codes & Standards	3
Approved Advanced ETCM or INDS Electives		6
Total Hours		**21**

Minor in Construction Management

The Minor in Construction Management consists of the following courses:

Code	Title	Hours
Minor in Construction Management		
Required Courses		
ETCM 1363	Wood Frame Construction	3
ETCM 3368	Concrete/Masonry Construction	3
ETCM 4330	Construction Equipment & Procedures	3
ETCM 4368	Building Materials	3
ETCM 4370	Construction Plans & Documents	3
ETCM 4371	Building Information Modeling	3
ETDD 2363	Architectural Design	3
Total Hours		**21**

Minor in Electronics

A Minor in Electronics consists of the following courses:

Code	Title	Hours
Minor in Electronics		
Required Courses		
ETEE 1340	Introduction to Circuits	3
ETEE 2320	Circuits and Systems	3
ETEE 3313	Industrial Robotics	3
or ETEE 4355	Electronic & Digital Communication	
ETEE 3345	Digital Electronics	3
ETEE 3350	Analog Electronics	3
ETEE 3376	Microcontroller Applications	3
ETEE 4351	Automation and Programmable Logic Controllers (PLCs)	3
ETEE 4352	Instrumentation & Interfacing	3
Total Hours		**24**

Minor in Engineering Design Technology

A Minor in Engineering Design Technology consists of the following courses:

Code	Title	Hours
Minor in Engineering Design Technology		
Required Courses		
ETDD 1361	Engineering Graphics	3
ETDD 3310	Product Design & Development	3
ETDD 3366	Intro to Virtual and Augmented Reality	3
ETEC 3367	Engineering Materials Techniques	3
ETDD 3379	Industrial Design & Drafting	3
ETDD 4339	Advanced Computer-Aided Drafting and Modeling	3
or ETDD 4388	3-Dimensional Parametric Design	
ETDD 4380	Material Hand & Plant Layout	3
Total Hours		**21**

Minor in Environmental, Health, and Safety Management

A Minor in Environmental, Health, and Safety Management is completely online and consists of the following courses:

Code	Title	Hours
Minor in Environmental, Health, and Safety Management		
Required Course		
ETSM 2310	Introduction to Occupational Safety	3
Prescribed Electives		
Environmental, Health, and Safety Management/Industrial Safety Management (ETSM) advanced electives		18
Total Hours		**21**

Minor in Manufacturing Engineering Technology

The Minor in Manufacturing Engineering Technology provides Engineering Technology students with the opportunity to develop knowledge and skills related to high-demand jobs in the manufacturing industry.

Code	Title	Hours
Minor in Manufacturing Engineering Technology		
Required Courses		
ETDD 1361	Engineering Graphics	3
ETDD 4388	3-Dimensional Parametric Design	3
or ETDD 4339	Advanced Computer-Aided Drafting and Modeling	
ETEC 2366	Machining Technology II	3
ETEC 2382	Manufacturing Processes	3
ETEC 1366	Machining Technology I	3
ETEC 3344	Computer Integrated Manufacturing	3
ETEC 3382	Manufacturing Processes II	3
ETEC 4315	Quality Assurance and Control	3
Total Hours		**24**

Minor in Trades and Industry Certification

The 21-hour minor in Trades and Industry Certification may be selected to accompany any approved major at Sam Houston State University.

Code	Title	Hours
Minor in Trades and Industry Certification		
Required Courses		
INED 4310	Occupational Human Relations in Career Technical Education	3
INED 4363	Preparation of Instructional Materials	3
INED 4364	Teaching in Schools & Industry	3
INED 4379	Occupational Analysis and Curriculum Development	3
INED 4391	Lab Management, Organization, and Control	3
Internship (Pre Service Student Teaching)		6
ETEC 4391	Work Base Mentorship	
Total Hours		**21**

Department of Environmental and Geosciences

Chair: Joseph Hill (jch031@shsu.edu) (936) 294-1452

Website: Department of Environmental and Geosciences (https://www.shsu.edu/academics/geography-geology/)

The Department of Environmental and Geosciences is an excellent blend of three disciplines that have a common thread: Environmental Science, Geography, and Geology. All three degrees are concerned with the physical environment, with resources – including energy resources – and with ways that humans interact with and modify the natural environment. Students may major or minor in all three areas.

Mission

The primary mission of the Department of Environmental and Geosciences is to provide students a comprehensive understanding of the range and depth of these scientific disciplines which encompass, respectively, human and environmental interactions, the human and physical domains of geography, and the physical and historical domains of geology. This understanding is intended to enable our students to achieve their full potential as skilled professionals and well-qualified technical employees in a diverse range of companies and governmental organizations and to become effective teachers and community leaders. Our programs enable students to become informed users of a range of technologies and prudent stewards of our natural resources. This understanding of the world will promote successful careers, active life-long learning, and an ability and desire to provide a positive contribution to society.

Geography Program

Coordinator: John Strait (jstrait@shsu.edu) (936) 294-4077

Website: Department of Environmental and Geosciences (https://www.shsu.edu/academics/geography-geology/)

Geography is an interdisciplinary field of study that provides students the skills and technical knowhow needed to address issues, challenges and opportunities associated with how humans interact with their local and global environments. As an academic subject, it focuses on both the physical and cultural environments and incorporates the use and application of a host of geospatial technologies as a means to study and analyze these subject matter, such as geographic information systems (GIS), remote sensing, digital image processing, and global positioning systems. Geographers can study an exceptionally eclectic range of phenomena, including demographics, landforms, soil fertility, plant and animal wildlife, weather and climate, religion, language, ethnicity, urban planning, and international affairs, just to name a few. Geographers are behind the maps you use every day, as well as the policies that shape our cities, and the analysis that sustains and protects our environment. Geographers help shape the future design of cities and infrastructure. Geographers assess the impacts of rising sea levels, volcanic eruptions, floods, heat waves, and tropical storms, while others study impacts of wildfires or manage wetlands. Geographers investigate the environmental and economic impacts of tourism, and gage the cultural impacts of globalization. Geographers use cutting edge satellite data to explore alternative energy sources and assess natural resource utilization and population growth. Geographers also work directly with local people on socioeconomic issues such as health, migration, and housing affordability. Moreover, geographers play a vital role in teaching this eclectic subject matter in school districts across the nation and around the world. If you want to learn about and change our world, there is no better discipline for people who thrive on complex challenges and want to make a real impact on lives and our environment. In the age of global markets, global culture, global transportation systems, and global telecommunications, we are increasingly faced with the reality that our welfare is highly interdependent with the rest of the world. A geographic education represents an excellent way to understand how to deal with environmental, social and economic issues associated with this reality. For an individual curious about the world, and his or her place in it, few disciplines satisfy that curiosity as much as geography.

Academic Programs

The Geography program incorporates a two-track curriculum and is designed to fit the particular academic interests of our students and better prepare them for life beyond SHSU, particularly in terms of graduate study or employment opportunities. Students majoring in geography focus their studies within one of two concentrations; 1) Environment, Culture and Development, or 2) GIS (Geographic Information Science). Both concentrations are somewhat flexible and enable students to tailor their degree plans toward a mix of coursework most appropriate to their career goals. The Environment, Culture and Development Concentration truly integrates the strengths of environmental and human geography, with the application of geospatial techniques. For example, students choosing this concentration matriculate through a degree that integrates scientific study of the environment with the perspectives of such topics as hydrology, conservation, culture, economic change, development, population, and public health, while gaining experience using geospatial techniques. Students choosing this concentration can pursue either Bachelors of Arts (BA) or Bachelors of Science (BS) degrees. The GIS Concentration, available as a BS degree, is designed for students desiring more advanced and intensive training with a broad range geospatial tools and technologies, such as Advanced GIS, Remote Sensing, and Digital Image Processing.

Highlights

Located on the third floor of the Lee Drain Building, the department maintains both a Geographic Information System (GIS) lab and a combination computer cartography and remote sensing lab. These labs contain state-of-the-art computers, software and scanners. We also have 2 vans available for fieldtrips, a coring device capable of taking up to 6m core samples, high-quality GPS receivers, a large-scale flume to demonstrate sedimentation processes, a Ground Penetrating Radar System, and a weather station. In order to enhance learning, all of our rooms are outfitted with video-projection systems, and our lecture rooms have sound systems and dedicated computers with Internet access that are used by the instructors for teaching purposes. Many of our students obtain internships with Houston-area firms and organizations, and work with faculty members on a range of research

projects. Beyond traditional in-class courses, the geography program does offer a number of on-line courses. The program also regularly offers a number of field courses that offer students opportunities to directly experience the geographical processes and concepts learned in the classroom. Some of these field courses involve travel and/or international experiences and have included trips to Hawaii, Mississippi Delta, Brazil, Ecuador, Spain, Italy and other locations.

Career Opportunities

Because of the breadth of geography, there are a wide variety of career opportunities for geography graduates. These opportunities include careers in the following:

- urban and/or regional planning
- GIS analyst/programmer
- environmental consulting and management
- emergency management
- location analyst
- public health consulting and management
- state transportation departments
- city, county, state, and federal government
- education/teaching
- geoscientist/geo-technician
- travel writing
- energy companies
- tourism
- military

Geography's focus on spatial relationships, in conjunction with new advances in technology, have led to the development of a host of geographical tools used in a wide variety of fields. In fact, geospatial technology now affects almost every aspect of life, from navigating an unfamiliar neighborhood to locating the world's most wanted terrorists. Because these tools can be applied within virtually any field (government, business, military, etc.) geospatial technology is one of the fastest growing job fields and the demand for people with experience using them exceeds the supply. Aside from offering a major concentration that emphasizes these technologies, we also offer students an Interdisciplinary Minor in Geospatial Science (GSS) that emphasizes GIS, remote sensing and computer cartography. The combination of geography major and a GSS minor is highly marketable. In addition, we also offer a GIS certificate program for students desiring to pursue a limited number of geotechnical courses. With their broad background, geography graduates have an ability to see connections where others do not, and this enables geographers to work in many different fields. Geography literally offers a world of opportunities.

Suggested Minors

- GSS (Geo-spatial Science)
- Environmental Science
- Environmental Studies
- Geology
- Foreign Language
- Biology or Environmental Science
- History
- International Business
- Sociology
- Mass Communication
- Computer Science
- Political Science
- Secondary Education

Program Specific Requirements

Students must meet the academic standards established by the university.

Geology Program

Coordinator: Brian J. Cooper (bio_bjc@shsu.edu) (936) 294-1566

Website: Department of Environmental and Geosciences (https://www.shsu.edu/academics/geography-geology/)

Geology is the ultimate integrated science because all the principles and methods of the other sciences, as well as geologic principles and methods, are applied to an understanding of the **Earth** and the **Environment**. Geologists study rocks, of course, but Geology encompasses so much more - anything related to the Earth or Earth-systems and even other planets. Information derived from earth materials may eventually be used to forecast earthquakes, volcanic eruptions, and various environmental hazards. The information obtained may also be applied to help geologists locate various natural resources (water, metals and other mineral resources, and energy). Therefore, geology serves to enhance human existence by attempting to reduce risk and by providing the materials necessary for the expansion of civilization.

Academic Programs

The Geology Degree is designed for the person seeking a position in industry or planning to attend graduate school. The Geoscience Plan is designed for the person with a general interest in geology. Each plan is designed to provide an education in the fundamentals of geology. The required geology courses will give the student an understanding of the Earth and will provide an opportunity to observe, investigate, analyze, and interpret geological materials, processes, and structures. Both plans can be tailored to an individual's interest with specific electives and minors. For example, if a student is interested in ***Environmental Geology***, then they would be advised by their advisor to take Hydrogeology rather than Petroleum Geology for their required geology classes; choose advanced geology elective courses such as Environmental Geology, Hydrology, and other environmentally related courses. The student would also choose Environmental Science as their minor.

Highlights

Located on the third floor of the Lee Drain Building, the department places considerable emphasis on the integration of lab-based analytical science with similarly rigorous analysis conducted by means of field work. In support, the department maintains a range of field and laboratory equipment which include: a Mackereth coring system, a vibracorer, a research flume, a portable XRF, an X-ray diffractometer, a catholuminescence microscope, a Scanning Electron Microscope equipped with an energy-dispersive spectrometer, plus a variety of GPS and GIS-linked surveying equipment. Many of our students obtain internships and work with faculty members on research projects.

Career Opportunities

Geology majors generally pursue careers in these areas:

- the environmental industry
- mining industry
- the petroleum industry
- government
- teaching
- geotechnical engineering

Geology students are provided with the knowledge and skills required to pursue an applied profession, a career in education, and/or continued education at the graduate level.

Suggested Minors

- Computer Sciences
- Environmental Science
- Environmental Studies
- Geography
- Geographic Information Systems
- Mathematics
- Other sciences (Biology, Chemistry, or Physics)

Program Specific Requirements

Geology program specific requirements include 8 hours in each of CHEM and PHYS; plus 7-8 hours of MATH.

Environmental Science Degree

Coordinator: Ross Guida (ross.guida@shsu.edu) (936) 294-1233

Website: Department of Environmental and Geosciences (https://www.shsu.edu/academics/geography-geology/)

Environmental scientists seek to protect both environmental and human health by assessing problems and seeking to find solutions through field, lab, and/or computer-based work. Working in environmental science-related jobs can involve collecting and analyzing soil, water, or air samples, mapping

wetlands and disasters, or modeling how pollution is moving through rivers, aquifers, and the air. Environmental Scientists may even find themselves informing the general public about hazards or testifying in court cases.

Environmental Scientists:

- Work in the private sector, government, or non-governmental positions
- Work in environmental consulting and for environmental engineering firms
- Work on enforcing or improving environmental regulations, laws, and policies
- Advise government officials responsible for developing policies
- Assess possible environmental and health impacts of development projects
- Serve as community advocates to ensure clean water and air for vulnerable populations.

No matter the sector they work in, environmental scientists are typically broadly trained across multiple disciplines. Course work for environment science is hands-on and lab-science heavy, including Biology, Chemistry, Geography, Geology, and Soil Science. In addition to being well versed in analyzing data using mathematical and statistical methods, environmental scientists must also have strong writing and oral communication skills. Further, it is important that environmental scientists understand societal impacts and the context of their physical science work through additional perspectives drawn from human geography, sociology, and political science.

Academic Programs

The Environmental Science degree has a choice of and three tracks/concentrations and is designed to fit the particular academic interests of our students and better prepare them for life beyond SHSU, particularly in terms of employment opportunities or graduate study. Students majoring in Environmental Science focus their studies within one of three concentrations; 1) Sustainability; 2) Pollution Abatement; or 3) Water Resources. All three concentrations require several core lab science courses in Biology, Chemistry, Geography, and Geology to provide an interdisciplinary foundation for upper-level coursework. Sustainability allows for more elective courses for those that want a broad Environmental Science background and more social science courses. Pollution Abatement is designed for students that want to focus on Biology and Chemistry-related Environmental Science work. Water Resources provides students with a strong foundation to assess water-related issues and includes courses in Aquatic Biology, Surface Water, Groundwater, and Water Quality-related applications. Across the Environmental Science concentrations, students gain experience in labs and the field. Students are also encouraged to pursue internship opportunities that can be counted toward prescribed major elective hours.

Highlights

Combining the strengths of SHSU's Biology, Chemistry, Geography, and Geology programs, Environmental Science is a great choice for students that want to help communities and solve problems. It's also a great choice for students that like science but have a hard time picking just one area of scientific interest. Students get diverse perspectives from different physical scientists and take some social science courses to understand how Environmental Science fits in a broad societal context. While the home of the program is located on the third floor of the Lee Drain Building, where the Geographic Information System (GIS) lab, remote sensing lab, Geology labs, and GPS units are located, students in Environmental Science have access to Chemistry labs and the state-of-the-art Biological Lab Sciences building. Multiple trips to SHSU's Field Station (https://www.shsu.edu/centers/cbfs/) are also included through multiple courses. Students in Environmental Science have access to the College of Science and Engineering Technologies' (https://www.shsu.edu/academics/science-and-engineering-technology/) two 12-passenge vans for field trips and equipment across multiple contributing physical science departments. In order to enhance learning, all of our rooms are outfitted with video-projection systems, and our lecture rooms have sound systems and dedicated computers with Internet access that are used by the instructors for teaching purposes. A number of our students obtain internships with Houston-area firms and organizations, and work with faculty members on a range of research projects. While there are some online elective course options, Environmental Science includes multiple hands-on, lab-oriented courses. The degree also regularly offers a number of field opportunities for students to learn outside the classroom. Some of these field courses involve travel and/or international experiences and have included trips to Central TX, the Texas coast, Hawaii, Central America, Europe, and Africa.

Career Opportunities

Because of the breadth of Environmental Science, there is a wide variety of career opportunities for graduates. These opportunities include careers in the following:

- Environmental Consulting
- Environmental Planning
- Environmental Policy and Politics
- Environmental compliance (inc. for Construction and Oil and Gas companies)
- Waste remediation and management
- Environmental Engineering
- Sustainability officer
- Conservation
- Environmental Protection
- Environmental Law

- Emergency Management
- Lab analyst (Air, soil, water, contamination, etc.)
- Public Health
- Dept. of Transportation
- City, county, state, and federal government
- Education
- Military

Environmental Scientists' broad backgrounds allow them to solve problems that require multiple disciplinary perspectives. Environmental scientists often work in the field, lab, or both. Many also write up reports that relate to development and current regulations and policies.

Suggested Minors

- NO MINOR IS REQUIRED WITH AN ENVIRONMENTAL SCIENCE MAJOR
- If students choose to do a minor, it may add time to their degree plan.
- Bachelor of Arts, Major in Geography (Environment, Culture, and Development) (p. 1062)
- Bachelor of Science, Major in Environmental Science (Pollution Abatement) (p. 1065)
- Bachelor of Science, Major in Environmental Science (Sustainability) (p. 1070)
- Bachelor of Science, Major in Environmental Science (Water Resources) (p. 1074)
- Bachelor of Science, Major in Geography (Environment, Culture, and Development) (p. 1078)
- Bachelor of Science, Major in Geography, Geo-spatial Information Sciences (p. 1082)
- Bachelor of Science, Major in Geology (p. 1085)
- Bachelor of Science, Major in Geology (Geoscience) (p. 1088)
- Bachelor of Science: Major in Integrated Studies: Land and Urban Property Development Concentration (p. 756)
- Undergraduate Certificate in Crime Analysis and Mapping (p. 1090)
- Undergraduate Certificate in Geospatial Applications (p. 1092)
- Minor in Crime Analysis and Mapping (p. 1093)
- Minor in Environmental Science (p. 1094)
- Minor in Environmental Studies (p. 1095)
- Minor in Geography (p. 1096)
- Minor in Geology (p. 1096)
- Minor in Geo-Spatial Science (p. 1096)

Environmental Science

Internships

Educational and research opportunities in Environmental Science are available through a variety of internship opportunities that will increase students' skills and employment opportunities.

Awards and Scholarships

- **G. SCOTT AND MARY S. MC CARLEY ENVIRONMENTAL SCIENCE EDDOWED SCHOLARSHIP FOR ENVIRONMENTAL SCIENCE STUDENTS**: $1,000 annually. Must have a 3.0 GPA and be an Environmental Science student.

Request information from:

Ross Guida
Environmental Science Degree Coordinator
(936) 294-1233

Department of Environmental and Geosciences
Box 2148
Huntsville, TX 77341-2148

Geography

Student Organizations

- **Geographers of Sam Houston (GOSH)** - GOSH is intended to enhance appreciation for geography through club-sponsored field trips, guest lectures, and other activities, and to promote camaraderie among geography students.
- **Gamma Theta Upsilon (GTU)** - GTU is the National Geography Honor Society and was established to promote geographic awareness and the pursuit of geographic knowledge. To be eligible for membership in this honor society, students must have at least 9 hours of geography coursework, a minimum GPA of 3.3 in their geography coursework and overall, and the equivalent of 3 full-time college semesters completed.

Internships

Educational and research opportunities using GIS are available through a variety of internship opportunities that will increase students' skills and employment opportunities.

Richardson Endowment Awards

- **C. ALLEN WILLIAMS AWARD FOR GEOGRAPHY STUDENTS:** $500-$700 one semester.
  Geography majors or minors, senior status.
- **CODY BARRON AWARD FOR GEOGRAPHY STUDENTS:** $500-$700 one semester.
  Geography majors or minors, senior status.
- **GERALD L. HOLDER AWARD FOR GEOGRAPHY STUDENTS:** $500 -- $700 one semester.
  Geography majors or minors, senior status, 3.0 GPA Geography overall.
- **JAMES ELLISON KIRKLEY AWARD:** Two awards (amounts vary) to majors in history, political science, geography, or sociology.
  Recipients are selected on basis of high academic achievement.
- **JOHN H. BOUNDS AWARD FOR GEOGRAPHY STUDENTS:** $500-$700 for one semester.
  Geography majors or minors, senior status.
- **THE ELTON M. SCOTT AWARD FOR GEOGRAPHY STUDENTS:** $500 -- $700 one semester.
  Geography majors or minors, senior status. 3.0 GPA Geography overall.

Request information from:

John Strait
Geography Program Coordinator
(936) 294-4077
Department of Environmental and Geosciences
Box 2148
Huntsville, TX 77341-2148
(936) 294-1233

Geology

Student Organizations

American Association of Petroleum Geologists (AAPG) Student Chapter - AAPG is an international professional geological society that exists to foster scientific research, to advance the science of geology, to promote technology, and to inspire high professional conduct. The student chapter is run by students to facilitate networking with professional geologists, and provide other professional development opportunities.

Sam Houston Association of Geology Students (SHAGS) - SHAGS is a very active student organization that sponsors field trips to sites in Texas, Oklahoma, and Arkansas. Alumni, professors, and other professional geologists are invited to speak at SHAGS meetings. Geology majors benefit greatly from the sense of camaraderie gained during the field trips, meetings, and other activities.

Internships

Educational and research opportunities are available through a variety of internship opportunities in the fields of GIS, hydrocarbons, and environmental geology that will increase students' skills and employment opportunities.

Awards and Scholarships

- **CANNAN GEOLOGICAL SCHOLARSHIPS:** $600 per year, junior or senior status, Geology majors, minimum GPA of 3.2 in Geology and overall 3.0, faculty recommendations required.
- **CHUCK CAUGHEY GEOSCIENCE ENDOWED SCHOLARSHIP.** Award covers the full cost of attending Sam Houston State University (full tuition, fees, books, and room and board) must be a geology major, must maintain an overall GPA of 3.0 or better, and demonstrate financial need.

- **HOUSTON GEOLOGICAL SOCIETY OUTSTANDING SENIOR AWARD:** Awards and scholarships funded by the Houston Geological Society given to just seven universities in Texas.
- **HOUSTON GEOLOGICAL SOCIETY SCHOLARSHIP:** Award recipients are determined by a faculty committee during the Spring semester.
- **BRIAN COOPER GEOLOGY SCHOLARSHIP:** Award recipients are determined by a faculty committee during the Spring semester.
- **SHAGS Award:** $500 per year, awarded to two students, junior or senior status, Geology majors, minimum GPA of 3.0, faculty recommendations required.

Request information from:

Brian Cooper
Geology Program Coordinator
(936) 294-1233
Department of Environmental and Geosciences
Box 2148
Huntsville, TX 77341-2148

Director/Chair: **Joseph C Hill**

Samuel Adu-Prah, PHD (sxa054@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MSED, Alcorn State University; MPHIL, University of Cambridge; BA, University of Ghana

Donald P. Albert, PHD (geo_dpa@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of N Carolina-Chapel Hill; MA, Appalachian State University; BS, Salem State College

Leila Dolce Character, PHD (leilacharacter@shsu.edu), *Assistant Professor of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BS, Univ of The South

Brian Jay Cooper, PHD (bio_bjc@shsu.edu), *Associate Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Virginia Polytechnic&State U; MS, Virginia Polytechnic&State U; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Joshua M Gilliland, PHD (jmg177@shsu.edu), *Assistant Professor Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, LSU & A&M College; MS, Western Kentucky University; BS, University of Tulsa

Ross Joseph Guida, PHD (ross.guida@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MS, Univ of Nevada-Las Vegas; BA, Univ of Wisconsin-Eau Claire

John P Harris, PHD (jph020@shsu.edu), *Associate Professor of Geology of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Texas A&M University; MS, Univ of Arkansas-Fayetteville; BS, Univ of Arkansas-Fayetteville

Joseph C Hill, PHD (jch031@shsu.edu), *Associate Professor and Chair of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Missouri-Columbia; PHD, Univ of Missouri-Columbia; MS, Univ of Tennessee-Knoxville; MS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville

Mark R Leipnik, PHD (geo_mrl@shsu.edu), *Professor of Geography and Geology*, *Department of Environmental & Geosciences*, PHD, Univ of Calif-Santa Barbara; MBA, Rice University; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

David Kelton Moss, PHD (dxm112@shsu.edu), *Associate Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Syracuse University; MS, Univ of Oklahoma-Norman; BS, Centenary College of Louisiana

Falguni Shyamal Mukherjee, PHD (fsm002@shsu.edu), *Associate Dean of The Graduate School, Ombuds, and Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Wisconsin-Milwaukee; MS, Univ of Texas At Dallas; BE, Birla Institute of Tech & Sci

Velvet A Nelson, PHD (van001@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Kent State University; MA, East Carolina Univ; BSBA, West Liberty State College

John B Strait, PHD (jbs008@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Georgia; MA, Georgia State University; BA, Wittenberg University

Yaping Xu, PHD (yxx013@shsu.edu), *Assistant Professor of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, LSU & A&M College; PHD, LSU & A&M College; MS, University of Chinese Academy of Sciences; BE, Guizhou University (China)

Renjie Zhou, PHD (rxz013@shsu.edu), *Assistant Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Texas A&M University; BS, China University of Petroleum

Bachelor of Arts, Major in Geography (Environment, Culture, and Development)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-geography/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Geography (Environment, Culture, and Development)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1342	Elementary Statistics [1]	3
or STAT 3379	Statistical Methods in Practice	
WOLC 1411 & WOLC 1412	Beginning Foreign Language I and Beginning Foreign Language II	8
WOLC 2311 & WOLC 2312	Intermediate Foreign Language and Intermediate Foreign Language II [3]	6
Major: Foundation		
GEOG 1401	Weather and Climate [2]	4
Introduction or Regional Geography-Select one of the following:		3
GEOG 1300	People, Places, and the Environment [4]	
GEOG 2355	World Regional Geography: Europe, Asia, and Australia [3]	
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia [3]	
GEOG 3359	Regional Geography: the United States and Canada (Can only be taken once)	
Physical Geography-Select one of the following:		3
GEOG 2341	Physical Geography	
GEOL 1403	Physical Geology [2]	
GEOL 1405	Geologic & Environmental Hazards [2]	
GEOG 3301	Environmental Geography (Advanced Environment Core)	3
GEOG 3350	Cultural Geography (Advanced Human Core)	3
GEOG 2464	Introduction to Geographic Information Systems (GIS) (GIS Core)	4
Environment, Culture, and Development Concentration		
Select four of the following Human Geography courses:		12
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 3359	Regional Geography: the United States and Canada (Can only be taken once)	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4360	Cultural Field Study	
Select four of the following Physical/Environment Geography Courses:		12
GEOG 3320	Sustainability & Environment	
GEOG 3340	Meteorology	
GEOG 3342	Climatology	

GEOG 4100	Earth and Environment Seminar	
GEOG 4330	Hydrology and Water Resources	
GEOG 4331	Conservation of Natural Resources	
GEOG 4333	Field Studies	
GEOG 4432	Geomorphology	
Select one of the following Advanced Geo-Spatial Technique Courses:		3
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Information Systems (GIS)	
GEOG 4367	GIS Programming	
GEOG 4468	Remote Sensing	
Major: Prescribed Electives		
GEOG Elective [5]		3
Minor: Required [6,7]		**18**
Total Hours		**120**

1 MATH 1342 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 GEOG 1401, GEOL 1403, or GEOL 1405 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
3 GEOG 2355, GEOG 2356, WOLC 2311, or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
4 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 Additional GEOG Electives may be necessary depending on student course selection with Core Curriculum overlap.
6 12 semester credit hours of the minor should be used to meet the 42 advanced hours requirement.
7 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-geography/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1301[4]	3
GEOG 1401[3]	4	POLS 2305[5]	3
WOLC 1411	4	Introduction to Regional Geography [6]	3
	15		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	GEOG 2341, GEOL 1403, or GEOL 1405	3
HSTY 1302[4]	3	GEOG 3301	3
MATH 1342 or STAT 3379	3	GEOG 3350	3
POLS 2306[5]	3	WOLC 2311[7]	3
WOLC 1412	4	Minor[8,9]	3
	16		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)[10]		3 Advanced Geo-Spatial Technique Course[11]	3
Component Area IX (p. 91)		3 Human Geography [12]	6
GEOG 2464		4 Minor Advanced[8,9]	3
WOLC 2312[7]		3 Physical and Environmental Geography [13]	3
Minor [8,9]		3	
	16		**15**

Fourth Year

Fall	Hours	Spring	Hours
Human Geography [12]		3 GEOG Elective [14]	3
Minor Advanced[8,9]		6 Human Geography [12]	3
Physical and Environmental Geography [13]		3 Minor Advanced[8,9]	3
		Physical and Environmental Geography [13]	3
		Physical and Environmental Geography[13]	3
	12		**15**

Total Hours: 120

1. MATH 1342 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2. Satisfies Core Curriculum requirement for Component Area I (Communication).
3. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
4. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6. Select one from the Introduction or Regional Geography Course list below.
7. GEOG 2355, GEOG 2356, WOLC 2311, or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
8. 12 semester credit hours of the minor should be used to meet the 42 advanced hours requirement.
9. All minors can be paired with this degree program.
10. GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
11. Select one from the below Advanced Geo-Spatial Technique course list .
12. Select one from the below Human Geography course list.
13. Select one from the below Physical/Environmental course list.
14. Additional GEOG electives may be necessary depending on student course selection with Core Curriculum overlap.

Code	Title	Hours
Introduction to Regional Geography Courses [6]		
GEOG 1300	People, Places, and the Environment [8]	3
GEOG 2355	World Regional Geography: Europe, Asia, and Australia	3
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia	3
GEOG 3359	Regional Geography: the United States and Canada	3

Code	Title	Hours
Advanced Geo-Spatial Technique Courses [11]		
GEOG 3363	Computer Cartography	3
GEOG 4311	GIS in Law Enforcement	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4365	Applied Geographic Information Systems (GIS)	3
GEOG 4367	GIS Programming	3
GEOG 4468	Remote Sensing	4

Code	Title	Hours
Human Geography Courses [12]		
GEOG 3310	Sustainable Development	3
GEOG 3352	Tourism Geography	3
GEOG 3359	Regional Geography: the United States and Canada	3

GEOG 4351	Economic Geography	3
GEOG 4356	Urban Geography	3
GEOG 4357	Population Geography	3
GEOG 4359	Transportation Geography	3
GEOG 4360	Cultural Field Study	3

Code	Title	Hours
Physical/Environment Geography Courses [13]		
GEOG 3320	Sustainability & Environment	3
GEOG 3340	Meteorology	3
GEOG 3342	Climatology	3
GEOG 4100	Earth and Environment Seminar	1
GEOG 4330	Hydrology and Water Resources	3
GEOG 4331	Conservation of Natural Resources	3
GEOG 4432	Geomorphology	4
GEOG 4333	Field Studies	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Geography (Environment, Culture, and Development) is designed to provide graduates with the following marketable skills:

- Use the scientific method to address environmental and human problems.
- Think critically and problem solve.
- Use statistics to evaluate hypotheses.
- Communicate and engage with technical writing.
- Gather, manage, analyze and interpret spatially-referenced data.
- Work with maps, spatially-referenced databases, and a range of geospatial technologies.
- Apply knowledge and awareness of ecosystems and cultural environments in order to address a range of environmental and social issues.

Bachelor of Science, Major in Environmental Science (Pollution Abatement)

Environmental Science Degree

Coordinator: Ross Guida (ross.guida@shsu.edu) (936) 294-1233

Website: Department of Environmental and Geosciences (https://www.shsu.edu/academics/geography-geology/)

Environmental scientists seek to protect both environmental and human health by assessing problems and seeking to find solutions through field, lab, and/or computer-based work. Working in environmental science-related jobs can involve collecting and analyzing soil, water, or air samples, mapping wetlands and disasters, or modeling how pollution is moving through rivers, aquifers, and the air. Environmental Scientists may even find themselves informing the general public about hazards or testifying in court cases.

Environmental Scientists:

- Work in the private sector, government, or non-governmental positions
- Work in environmental consulting and for environmental engineering firms
- Work on enforcing or improving environmental regulations, laws, and policies
- Advise government officials responsible for developing policies

- Assess possible environmental and health impacts of development projects
- Serve as community advocates to ensure clean water and air for vulnerable populations

No matter the sector they work in, environmental scientists are typically broadly trained across multiple disciplines. Course work for environmental science is hands-on and lab-science heavy, including Biology, Chemistry, Geography, Geology, and Soil Science. In addition to being well versed in analyzing data using mathematical and statistical methods, environmental scientists must also have strong writing and oral communication skills. Further, it is important that environmental scientists understand societal impacts and the context of their physical science work through additional perspectives drawn from human geography, sociology, and political science.

Academic Programs

The Environmental Science degree has a choice of three tracks/concentrations and is designed to fit the particular academic interests of our students and better prepare them for life beyond SHSU, particularly in terms of employment opportunities or graduate study. Students majoring in Environmental Science focus their studies within one of three concentrations: 1) Sustainability; 2) Pollution Abatement; or 3) Water Resources. All three concentrations require several core lab science courses in Biology, Chemistry, Geography, and Geology to provide an interdisciplinary foundation for upper-level coursework. Sustainability allows for more elective courses for those that want a broad Environmental Science background and more social science courses. Pollution Abatement is designed for students that want to focus on Biology and Chemistry-related Environmental Science work. Water Resources provides students with a strong foundation to assess water-related issues and includes courses in Aquatic Biology, Surface Water, Groundwater, and Water Quality-related applications. Across the Environmental Science concentrations, students gain experience in labs and the field. Students are also encouraged to pursue internship opportunities that can be counted toward prescribed major elective hours.

Highlights

Combining the strengths of SHSU's Agriculture, Biology, Chemistry, and Environmental and Geosciences programs, Environmental Science is a great choice for students that want to help communities and solve problems. It's also a great choice for students that like science but have a hard time picking just one area of scientific interest. Students get diverse perspectives from different physical scientists and take some selected social science courses to understand how Environmental Science fits in a broad societal context. While the home of the program is located on the third floor of the Lee Drain Building, where the Geographic Information System (GIS) lab, remote sensing lab, Geology labs, and GPS units are located, students in Environmental Science have access to Chemistry labs and the state-of-the-art Biological Lab Sciences building. Multiple trips to SHSU's Field Station (https://www.shsu.edu/centers/cbfs/) are also included through multiple courses. Students in Environmental Science have access to the College of Science and Engineering Technology (https://www.shsu.edu/academics/science-and-engineering-technology/)'s two 12-passenger vans for field trips and equipment across multiple contributing physical science departments. In order to enhance learning, all of our rooms are outfitted with video-projection systems, and our lecture rooms have sound systems and dedicated computers with internet access that are used by the instructors for teaching purposes. A number of our students obtain internships with Houston-area firms and organizations and other companies and agencies across the state and beyond. Students also work with faculty members on a range of research projects. While there are some online elective course options, Environmental Science includes multiple hands-on, lab-oriented courses. The degree also regularly offers a number of field opportunities for students to learn outside the classroom. Some of these field courses involve travel and/or international experiences and have included trips to central Texas, the Texas coast, Hawaii, Central America, Europe, and Africa.

Career Opportunities

Because of the breadth of Environmental Science, there is a wide variety of career opportunities for graduates. These opportunities include careers in the following:

- Environmental Consulting
- Environmental Planning
- Environmental Policy and Politics
- Environmental compliance (inc. for Construction and Oil and Gas companies)
- Water management and policy
- Waste remediation and management
- Environmental Engineering
- Sustainability officer
- Conservation
- Environmental Protection
- Environmental Law
- Emergency Management
- Lab analyst (air, soil, water, contamination, etc.)
- Public Health
- Department of Transportation
- City, county, state, and federal government

- Education
- Military

Environmental Scientists' broad backgrounds allow them to solve problems that require multiple disciplinary perspectives. Environmental scientists often work in the field, lab, or both. Many also write up reports that relate to development and current regulations and policies.

Suggested Minors

- NO MINOR IS REQUIRED WITH AN ENVIRONMENTAL SCIENCE MAJOR
- If students choose to do a minor, it may add time to their degree plan.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Environmental Science (Pollution Abatement)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
MATH 1342	Elementary Statistics	3
or MATH 3379	Statistical Methods in Practice	
or STAT 3379	Statistical Methods in Practice	
MATH 1420	Calculus I [1]	4
Major: Foundation		
BIOL 1401	Environmental Science	4
BIOL 3320	Sustainability & Environment	3
or GEOG 3320	Sustainability & Environment	
BIOL 3409	General Ecology	4
BIOL 4330	Aquatic Biology	3
BIOL 4374	Biostatistics	3
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3368	Environmental Chemistry	3
GEOG 1401	Weather and Climate [2]	4
GEOG 4331	Conservation of Natural Resources	3
GEOG 4432	Geomorphology	4
GEOL 1403	Physical Geology [2]	4
GEOL 3326	Environmental Geology	3
GEOL 4426	Hydrogeology	4
GEOL 4304	Geochemistry	3
PLSC 3440	Soil Science	4
POLS 3395	Environmental Policy	3

Major: Prescribed Electives		
Select 7 hours from the following (at least 5 hours must be advanced):		7
AGET 3383	Soil & Water Conservation Engineering	
BIOL 2420	Introduction to Applied Microbiology	
BIOL 3461	Wildlife Biology	
BIOL 3470	General Microbiology	
BIOL 4320	Environmental Toxicology	
CHEM 2125	Organic Chemistry II: Lab	
CHEM 2325	Organic Chemistry II: Lecture	
CHEM 4442	Air Quality	
ECON 3352	Energy and Environmental Economics	
ENGL 3330	Introduction to Technical Writing	
GEOG 3340	Meteorology	
GEOG 3342	Climatology	
GEOG 4100	Earth and Environment Seminar	
GEOG 4330	Hydrology and Water Resources	
GEOG 4333	Field Studies	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Information Systems (GIS)	
GEOG 4399	Environmental and Geoscience Internship	
GEOG 4468	Remote Sensing	
GEOL 3330	Oceanography	
GEOL 4100	Earth and Environment Seminar	
GEOL 4312	Economic Geology	
GEOL 4399	Environmental and Geoscience Internship	
HLTH 4390	Environmental Health	
MATH 1430	Calculus II	
PLSC 4330	Soil Fertility Management and Fertilizers	
PLSC 4397	Integrated Pest Management	
WMGT 2301	Principles of Wildlife Management	
WMGT 3382	Habitat & Pond Management	
Minor: Not Required [5]		
Total Hours		**120**

1 MATH 1420 is suggested, if eligible; otherwise, take MATH 1314. MATH 1420 satisfies three semester credit hours of the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX (Component Area Option).

2 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).

3 ECON 2301 or ECON 2302. ECON 2301 is needed as a prerequisite for ECON 3352.

4 GEOG 2355 or GEOG 2356 is suggested plus one additional credit hour from Component Area IX (Component Area Option) if MATH 1420 or MATH 1410 are not taken.

5 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Component Area IX (p. 91)[4]	3
CHEM 1411		4 BIOL 1401	4
ENGL 1301[1]		3 CHEM 1412	4
HSTY 1301[2]		3 ENGL 1302[1]	3
MATH 1420 (if eligible)[3]		4 HSTY 1302[2]	3
	17		**17**

Second Year

Fall	Hours	Spring	Hours
BIOL 1406		4 BIOL 1407	4
CHEM 2323 & CHEM 2123		4 CHEM 2401	4
GEOL 1403[5]		4 GEOG 1401[5]	4
POLS 2305[6]		3 POLS 2306[6]	3
	15		**15**

Third Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 BIOL 3409	4
Component Area VIII (p. 90)[7]		3 GEOL 3326	3
BIOL 3320 or GEOG 3320		3 MATH 1342, 3379, or STAT 3379	3
CHEM 3368		3 POLS 3395	3
PLSC 3440		4	
	16		**13**

Fourth Year

Fall	Hours	Spring	Hours
BIOL 4330		3 GEOG 4331	3
BIOL 4374		3 GEOG 4432	4
GEOL 4304		3 Prescribed Electives[8]	7
GEOL 4426		4	
	13		**14**

Total Hours: 120

1. Satisfies the Core Curriculum requirement for Component Area I (Communication).
2. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
3. Satisfies three semester credit hours of the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX (Component Area Option).
4. GEOG 2355 or GEOG 2356 is suggested plus one additional credit hour from Component Area IX (Component Area Option) if MATH 1420 or MATH 1410 are not taken.
5. Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
6. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
7. ECON 2301 or ECON 2302. ECON 2301 is needed as a prerequisite for ECON 3352.
8. See Prescribed Electives course listing below.

Code	Title	Hours
Prescribed Electives [8]		
Select 7 hours from the following (at least 5 hours must be advanced):		11
AGET 3383	Soil & Water Conservation Engineering	3
BIOL 2420	Introduction to Applied Microbiology	4
BIOL 3461	Wildlife Biology	4
BIOL 3470	General Microbiology	4
BIOL 4320	Environmental Toxicology	3
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 2325	Organic Chemistry II: Lecture	3

CHEM 4442	Air Quality	4
ECON 3352	Energy and Environmental Economics	3
ENGL 3330	Introduction to Technical Writing	3
GEOG 3340	Meteorology	3
GEOG 3342	Climatology	3
GEOG 4100	Earth and Environment Seminar	1
GEOG 4330	Hydrology and Water Resources	3
GEOG 4333	Field Studies	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4365	Applied Geographic Information Systems (GIS)	3
GEOG 4399	Environmental and Geoscience Internship	3
GEOG 4468	Remote Sensing	4
GEOL 3330	Oceanography	3
GEOL 4100	Earth and Environment Seminar	1
GEOL 4312	Economic Geology	3
GEOL 4399	Environmental and Geoscience Internship	3
HLTH 4390	Environmental Health	3
MATH 1430	Calculus II	4
PLSC 4330	Soil Fertility Management and Fertilizers	3
PLSC 4397	Integrated Pest Management	3
WMGT 2301	Principles of Wildlife Management	3
WMGT 3382	Habitat & Pond Management	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Environmental Science (Pollution Abatement) is designed to provide graduates with the following marketable skills:

- Use the scientific method to address environmental problems.
- Think critically and problem solve.
- Use statistics to evaluate hypotheses.
- Chemically analyze soil, water, and/or air samples.
- Apply knowledge of ecosystems and the environment to address environmental issues.

Bachelor of Science, Major in Environmental Science (Sustainability)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Environmental Science (Sustainability)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8

Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
CHEM 1411	General Chemistry I	4
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1342	Elementary Statistics	3
or MATH 3379	Statistical Methods in Practice	
or STAT 3379	Statistical Methods in Practice	
Major: Foundation		
BIOL 1401	Environmental Science [2]	4
BIOL/GEOG 3320	Sustainability & Environment	3
BIOL 3409	General Ecology	4
BIOL 4374	Biostatistics	3
or GEOG 4374	Geostatistics	
ECON 3352	Energy and Environmental Economics [4]	3
or GEOG 4351	Economic Geography	
GEOG 1401	Weather and Climate [2]	4
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
GEOG 3310	Sustainable Development	3
GEOG 4330	Hydrology and Water Resources	3-4
or GEOG 4432	Geomorphology	
GEOG 4331	Conservation of Natural Resources	3
GEOG 4361	Geographic Information Systems for Public Health	3-4
or GEOG 4365	Applied Geographic Information Systems (GIS)	
or GEOG 4468	Remote Sensing	
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic & Environmental Hazards	
GEOL 3326	Environmental Geology	3
PLSC 3440	Soil Science	4
POLS 3395	Environmental Policy	3
SOCI 4337	Environment And Society	3
or COMS 3393	Environmental Communication	
or SOCI 4334	Sociology Of Disaster	
Major: Prescribed Advanced Electives		
Select 17 hours from the following advanced electives:		17
AGET 3383	Soil & Water Conservation Engineering	
BIOL 3461	Wildlife Biology	
BIOL 4330	Aquatic Biology	
COMS 3393	Environmental Communication	
ENGL 3330	Introduction to Technical Writing	
GEOG 3301	Environmental Geography	
GEOG 3340	Meteorology	
GEOG 3342	Climatology	
GEOG 3350	Cultural Geography	

GEOG 4100	Earth and Environment Seminar
GEOG 4330	Hydrology and Water Resources
GEOG 4333	Field Studies
GEOG 4356	Urban Geography
GEOG 4357	Population Geography
GEOG 4360	Cultural Field Study
GEOG 4361	Geographic Information Systems for Public Health
GEOG 4365	Applied Geographic Information Systems (GIS)
GEOG 4399	Environmental and Geoscience Internship
GEOG 4432	Geomorphology
GEOG 4468	Remote Sensing
GEOL 3330	Oceanography
GEOL 4100	Earth and Environment Seminar
GEOL 4312	Economic Geology
GEOL 4399	Environmental and Geoscience Internship
GEOL 4426	Hydrogeology
HLTH 4390	Environmental Health
PHIL 4334	Environmental Ethics
PLSC 4330	Soil Fertility Management and Fertilizers
PLSC 4370	Forage Crops and Pasture Management
PLSC 4397	Integrated Pest Management
SOCI 4334	Sociology Of Disaster
SOCI 4337	Environment And Society
WMGT 2301	Principles of Wildlife Management
WMGT 3382	Habitat & Pond Management
Minor: Not Required [6, 7]	
Total Hours	**120-122**

1 Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and serves as a prerequisite for CHEM 1411 and BIOL 4374.
2 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
3 SOCI 2319 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and serves as a prerequisite for SOCI 4337 and SOCI 4339.
4 ECON 2301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and serves as a prerequisite for ECON 3352.
5 GEOG 2355 or GEOG 2356 is recommended plus one semester credit hour.
6 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours. All minors can be paired with this degree program.
7 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
BIOL 1401[1]		4 Component Area IX (p. 91)	1
ENGL 1301[2]		3 CHEM 1411	4
GEOG 1401[1]		4 ENGL 1302[2]	3

HSTY 1301[3]	3	GEOL 1403 or 1405	4
MATH 1314[4]	3	HSTY 1302[3]	3
	17		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)	3	Component Area IV (p. 89)[7]	3
Component Area VIII (p. 90)[5]	3	Component Area IX (p. 91)[8]	3
BIOL 1406	4	BIOL 1407	4
MATH 1342, 3379, or STAT 3379	3	GEOG 2464	4
POLS 2305[6]	3	POLS 2306[6]	3
	16		**17**

Third Year

Fall	Hours	Spring	Hours
BIOL 3320 or GEOG 3320	3	ECON 3352 or GEOG 4351	3
BIOL 3409	4	GEOG 4330 or 4432	3-4
GEOG 4331	3	GEOL 3326	3
GEOG 4361, 4365, or 4468	3-4	POLS 3395	3
		Prescribed Electives[9]	3
	13-14		**15-16**

Fourth Year

Fall	Hours	Spring	Hours
BIOL 4374 or GEOG 4374	3	Prescribed Electives[9]	10
GEOG 3310	3	SOCI 4337, COMS 3393, or SOCI 4334	3
PLSC 3440	4		
Prescribed Electives[9]	4		
	14		**13**

Total Hours: 120-122

1. Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
2. Satisfies the Core Curriculum requirement for Component Area I (Communication).
3. Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
4. Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and serves as a prerequisite for CHEM 1411 and BIOL 4374.
5. ECON 2301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and serves as a prerequisite for ECON 3352.
6. Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
7. SOCI 2319 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and serves as a prerequisite for SOCI 4337 and SOCI 4339.
8. GEOG 2355 or GEOG 2356 is recommended plus one semester credit hour.
9. See Prescribed Advanced Electives (Environmental Science) course list below.

Code	Title	Hours
Prescribed Advanced Electives [9]		**17**
Select 17 hours from the following advanced electives:		
AGET 3383	Soil & Water Conservation Engineering	3
BIOL 3461	Wildlife Biology	4
BIOL 4330	Aquatic Biology	3
COMS 3393	Environmental Communication	3
ENGL 3330	Introduction to Technical Writing	3
GEOG 3301	Environmental Geography	3
GEOG 3340	Meteorology	3
GEOG 3342	Climatology	3
GEOG 3350	Cultural Geography	3
GEOG 4100	Earth and Environment Seminar	1
GEOG 4330	Hydrology and Water Resources	3

GEOG 4333	Field Studies	3
GEOG 4356	Urban Geography	3
GEOG 4357	Population Geography	3
GEOG 4360	Cultural Field Study	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4365	Applied Geographic Information Systems (GIS)	3
GEOG 4399	Environmental and Geoscience Internship	3
GEOG 4432	Geomorphology	4
GEOG 4468	Remote Sensing	4
GEOL 3330	Oceanography	3
GEOL 4100	Earth and Environment Seminar	1
GEOL 4312	Economic Geology	3
GEOL 4399	Environmental and Geoscience Internship	3
GEOL 4426	Hydrogeology	4
HLTH 4390	Environmental Health	3
PHIL 4334	Environmental Ethics	3
PLSC 4330	Soil Fertility Management and Fertilizers	3
PLSC 4370	Forage Crops and Pasture Management	3
PLSC 4397	Integrated Pest Management	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4337	Environment And Society	3
WMGT 2301	Principles of Wildlife Management	3
WMGT 3382	Habitat & Pond Management	3

Notes

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Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours. All minors can be paired with this degree program.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Environmental Science (Sustainability) is designed to provide graduates with the following marketable skills:

- Use the scientific method to address environmental problems.
- Think critically.
- Generate and/or interpret geospatial data based geographic information systems (GIS) and/or remote sensing.
- Apply knowledge of the environment and ecosystems to address environmental issues.
- Interpret environmental policy to work within existing regulations.
- Interdisciplinary problem solvers that can integrate Biology, Chemistry, Geoscience, and social science.

Bachelor of Science, Major in Environmental Science (Water Resources)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Environmental Science (Water Resources)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [1, 3]		4
Degree Specific Requirements		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
MATH 1342	Elementary Statistics	3
or MATH 3379	Statistical Methods in Practice	
MATH 1420	Calculus I [1]	4
Major: Foundation		
BIOL 1401	Environmental Science	4
BIOL/GEOG 3320	Sustainability & Environment	3
BIOL 3409	General Ecology	4
BIOL 4330	Aquatic Biology	3
BIOL 4374	Biostatistics [6]	3-4
or MATH 1430	Calculus II	
ENGL 3330	Introduction to Technical Writing	3
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
GEOG 4330	Hydrology and Water Resources	3
GEOG 4331	Conservation of Natural Resources	3
GEOG 4361	Geographic Information Systems for Public Health	3-4
or GEOG 4365	Applied Geographic Information Systems (GIS)	
or GEOG 4468	Remote Sensing	
GEOG 4432	Geomorphology	4
GEOL 3326	Environmental Geology	3
GEOL 4304	Geochemistry [5]	3
or CHEM 3368	Environmental Chemistry	
GEOL 4426	Hydrogeology	4
PLSC 3440	Soil Science	4
POLS 3395	Environmental Policy	3
Select two courses from the following:		8
GEOG 1401	Weather and Climate	
GEOL 1403	Physical Geology	
GEOL 1405	Geologic & Environmental Hazards	
Major: Prescribed Electives		
Select five hours from the following:		5
AGET 3383	Soil & Water Conservation Engineering	
BIOL 3461	Wildlife Biology	
CHEM 2401	Quantitative Analysis	
CHEM 3368	Environmental Chemistry	
ECON 3352	Energy and Environmental Economics	

GEOG 3301	Environmental Geography
GEOG 3340	Meteorology
GEOG 3342	Climatology
GEOG 4100	Earth and Environment Seminar
GEOG 4333	Field Studies
GEOG 4361	Geographic Information Systems for Public Health
GEOG 4365	Applied Geographic Information Systems (GIS)
GEOG 4399	Environmental and Geoscience Internship
GEOG 4432	Geomorphology
GEOG 4468	Remote Sensing
GEOL 3330	Oceanography
GEOL 4100	Earth and Environment Seminar
GEOL 4312	Economic Geology
GEOL 4399	Environmental and Geoscience Internship
GEOL 4400	Stratigraphy & Sedimentation
HLTH 4390	Environmental Health
PLSC 4330	Soil Fertility Management and Fertilizers
SOCI 4337	Environment And Society
WMGT 2301	Principles of Wildlife Management
WMGT 3382	Habitat & Pond Management
Minor: Not Required [7, 8]	
Total Hours	**120-122**

1 MATH 1420 is recommended, if eligible. In addition to satisfying the Core Curriculum requirement for Component Area II (Mathematics), the course also satisfies one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).

3 SOCI 2319, GEOG 2355, or GEOG 2356 are recommended for the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) or Component Area IX (Component Area Option) because they are prerequisites for some of the Environmental Science Prescribed Electives.

4 ECON 2300, ECON 2301, or ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and serve as a prerequisite for ECON 3352 if desired as a course option. If not, GEOG 1300 is recommended.

5 Students who would like to take CHEM 3368 must take CHEM 2401 as an elective.

6 Students interested in groundwater should take MATH 1430; whereas, students interested in surface water should take BIOL 4374 or GEOG 4374.

7 A minor is **not required** for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

8 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-environmental-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)[1]		3 BIOL 1401	4
ENGL 1301[2]		3 ENGL 1302[2]	3
GEOG 1401, GEOL 1403, or GEOL 1405		4 GEOG 1401, GEOL 1403, or GEOL 1405	4
HSTY 1301[3]		3 HSTY 1302[3]	3

MATH 1420[4]		4	
		17	**14**

Second Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 Component Area IX (p. 91)[1]	3
Component Area VIII (p. 90)[5]		3 BIOL 1407	4
BIOL 1406		4 CHEM 1412[6]	4
CHEM 1411[6]		4 POLS 2306[7]	3
POLS 2305[7]		3	
		17	**14**

Third Year

Fall	Hours	Spring	Hours
BIOL 3320 or GEOG 3320		3 BIOL 3409	4
ENGL 3330		3 GEOG 2464	4
GEOG 4330		3 GEOL 3326	3
GEOL 4304 or CHEM 3368[8]		3 MATH 1430 or BIOL 4374[10]	3-4
Prescribed Electives[9]		4	
		16	**14-15**

Fourth Year

Fall	Hours	Spring	Hours
BIOL 4330		3 GEOG 4331	3
GEOG 4361, 4365, or 4468		3-4 GEOG 4432	4
GEOL 4426		4 POLS 3395	3
PLSC 3440		4 Prescribed Electives[9]	4
		14-15	**14**

Total Hours: 120-122

1. SOCI 2319, GEOG 2355, or GEOG 2356 are recommended for the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) or Component Area IX (Component Area Option) because they are prerequisites for some of the Environmental Science Prescribed Electives.
2. ENGL 1301 and ENGL 1302 satisfy the Core Curriculum requirement for Component Area I (Communication).
3. HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).
4. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5. ECON 2300, ECON 2301, or ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and serve as a prerequisite for ECON 3352 if desired as a course option. If not, GEOG 1300 is recommended.
6. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Sciences).
7. POLS 2305 and POLS 2306 satisfy the Core Curriculum requirement for Component Area VII (Political Science/Government).
8. Students who would like to take CHEM 3368 must take CHEM 2401 as an elective.
9. See the Prescribed Electives course list below. Students must select a minimum of eight hours to meet the 120-hour degree requirement.
10. Students interested in groundwater should take MATH 1430; whereas, students interested in surface water should take BIOL 4374 or MATH 3379.

Code	Title	Hours
Prescribed Electives [9]		**8**
Select five hours from the following:		
AGET 3383	Soil & Water Conservation Engineering	3
BIOL 3461	Wildlife Biology	4
CHEM 2401	Quantitative Analysis	4
CHEM 3368	Environmental Chemistry	3
ECON 3352	Energy and Environmental Economics	3
GEOG 3301	Environmental Geography	3
GEOG 3340	Meteorology	3
GEOG 3342	Climatology	3
GEOG 4100	Earth and Environment Seminar	1

GEOG 4333	Field Studies	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4365	Applied Geographic Information Systems (GIS)	3
GEOG 4399	Environmental and Geoscience Internship	3
GEOG 4432	Geomorphology	4
GEOG 4468	Remote Sensing	4
GEOL 3330	Oceanography	3
GEOL 4100	Earth and Environment Seminar	1
GEOL 4312	Economic Geology	3
GEOL 4399	Environmental and Geoscience Internship	3
GEOL 4400	Stratigraphy & Sedimentation	4
HLTH 4390	Environmental Health	3
PLSC 4330	Soil Fertility Management and Fertilizers	3
SOCI 4337	Environment And Society	3
WMGT 2301	Principles of Wildlife Management	3
WMGT 3382	Habitat & Pond Management	3

Notes

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Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours will be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Environmental Science (Water Resources) is designed to provide graduates with the following marketable skills:

- Use the scientific method to address environmental problems.
- Think critically.
- Generate and/or interpret geospatial data-based geographic information systems (GIS) and remote sensing.
- Use quantitative methods to assess groundwater and surface water issues.
- Analyze water quality and quantity.
- Apply knowledge of the environment and ecosystems to address environmental problems.
- Interdisciplinary problem solvers.

Bachelor of Science, Major in Geography (Environment, Culture, and Development)

Code	Title	Hours
Bachelor of Science, Major in Geography (Environment, Culture, and Development)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8

Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Eight hours (two courses) of Life and Physical Sciences (beyond the Core Curriculum)		8
MATH 1342	Elementary Statistics [1]	3
or STAT 3379	Statistical Methods in Practice	
Major: Foundation		
GEOG 1401	Weather and Climate (Component Area III) [2]	4
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
GEOG 3301	Environmental Geography (Advanced Environmental Core)	3
GEOG 3350	Cultural Geography (Advanced Human Core)	3
Introduction of Regional Geography		
(Select one from the following:)		3
GEOG 1300	People, Places, and the Environment [4]	
GEOG 2355	World Regional Geography: Europe, Asia, and Australia [3]	
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia [3]	
GEOG 3359	Regional Geography: the United States and Canada (Can only be taken once)	
Physical Geography		
(Select one from the following:)		3-4
GEOG 2341	Physical Geography	
GEOL 1403	Physical Geology [2]	
GEOL 1405	Geologic & Environmental Hazards [2]	
Major: Required (Concentration)		
Human Geography		
(Select four from the following:)		12
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 3359	Regional Geography: the United States and Canada (Can only be taken once)	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4360	Cultural Field Study	
Physical and Environmental Geography		
(Select four from the following:)		12
GEOG 3320	Sustainability & Environment	
GEOG 3340	Meteorology	
GEOG 3342	Climatology	
GEOG 4100	Earth and Environment Seminar	
GEOG 4330	Hydrology and Water Resources	
GEOG 4331	Conservation of Natural Resources	
GEOG 4333	Field Studies	
GEOG 4432	Geomorphology	
Advanced Geo-Spatial Technique Courses		
(Select one from the following:)		3-4
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4361	Geographic Information Systems for Public Health	

GEOG 4365	Applied Geographic Information Systems (GIS)	
GEOG 4367	GIS Programming	
GEOG 4468	Remote Sensing	
Major: Prescribed Electives		
Advanced GEOG or GEOL Elective		3
GEOG Elective [5]		3
Minor: Required [6, 7]		
Minor		18
Total Hours		**120-122**

1 MATH 1342 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 GEOG 1401, GEOL 1403, or GEOL 1405 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
3 GEOG 2355, GEOG 2356, WOLC 2311, or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
4 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5 Additional GEOG electives may be necessary depending on student course selection with Core Curriculum overlap.
6 12 semester credit hours from minor courses should be used to meet 42 advanced hours requirement.
7 All minors can be paired with this degree program.

Notes

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Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)[1]	3	Component Area III (p. 89)	4
Component Area IX (p. 91)	1	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[4]	3
GEOG 1401[3]	4	Introduction of Regional Geography [5, 6, 7]	3
HSTY 1301[4]	3	POLS 2305[8]	3
	14		**16**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area VIII (p. 90)	3
Component Area V (p. 90)	3	GEOG 3301	3
GEOG 2341, GEOL 1403, or GEOL 1405[3]	3-4	GEOG 3350	3
MATH 1342 or STAT 3379[1]	3	Minor Course [9]	3
POLS 2306[8]	3	Physical and Environmental Geography[11]	3
	16-17		**15**

Third Year

Fall	Hours	Spring	Hours
Advanced GEOG or GEOL	3	Component Area IV (p. 89)	3
GEOG 2464	4	Component Area IX (p. 91)	3
Human Geography [10]	3	Advanced Geo-Spatial Techniques [12]	3-4
Minor Course[9]	3	Advanced Minor Course [9]	3
Physical and Environmental Geography [11]	3	Human Geography [10]	3
	16		**15-16**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Minor[9]	6	Advanced Minor[9]	3

Component Area III (p. 89)	4 GEOG Elective [13]	3
Human Geography [10]	3 Human Geography [10]	3
Physical and Environmental Geography [11]	3 Physical and Environmental Geography [11]	3
	16	**12**

Total Hours: 120-122

1 MATH 1342 satisfies the Core Curriculum requirement for Component Area II (Mathematics).
2 Satisfies the Core Curriculum requirement for Component Area I (Communication).
3 GEOG 1401, GEOL 1403, or GEOL 1405 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).
4 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
5 See Introduction of Regional Geography Courses list below.
6 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7 GEOG 2355, GEOG 2356, WOLC 2311, or WOLC 2312 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
8 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
9 12 semester credit hours of the minor should be used to meet the 42 advanced hours requirement.
10 See Human Geography Courses list below.
11 See Physical and Environmental Geography Courses list below.
12 See Advanced Geo-Spatial Technique Courses list below.
13 Additional GEOG electives may be necessary depending on student course selection with Core Curriculum overlap.

Code	Title	Hours
Introduction of Regional Geography Courses [5]		
Select one from the following:		
GEOG 1300	People, Places, and the Environment	3
GEOG 2355	World Regional Geography: Europe, Asia, and Australia	3
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia	3
GEOG 3359	Regional Geography: the United States and Canada	3

Code	Title	Hours
Human Geography Courses [10]		
Select four from the following:		
GEOG 3310	Sustainable Development	3
GEOG 3352	Tourism Geography	3
GEOG 3359	Regional Geography: the United States and Canada	3
GEOG 4351	Economic Geography	3
GEOG 4356	Urban Geography	3
GEOG 4357	Population Geography	3
GEOG 4359	Transportation Geography	3
GEOG 4360	Cultural Field Study	3

Code	Title	Hours
Physical and Environment Geography Courses [11]		
Select four from the following:		
GEOG 3320	Sustainability & Environment	3
GEOG 3340	Meteorology	3
GEOG 3342	Climatology	3
GEOG 4100	Earth and Environment Seminar	1
GEOG 4330	Hydrology and Water Resources	3
GEOG 4331	Conservation of Natural Resources	3
GEOG 4333	Field Studies	3
GEOG 4432	Geomorphology	4

Code	Title	Hours
Advanced Geo-Spatial Technique Courses [12]		
Select one from the following:		
GEOG 3363	Computer Cartography	3
GEOG 4311	GIS in Law Enforcement	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4365	Applied Geographic Information Systems (GIS)	3
GEOG 4367	GIS Programming	3
GEOG 4468	Remote Sensing	4

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All minors can be paired with this degree program.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Geography (Environment, Culture, and Development) is designed to provide graduates with the following marketable skills:

- Use the scientific method to address environmental and human problems.
- Think critically and problem solve.
- Use statistics to evaluate hypotheses.
- Communicate and engage with technical writing.
- Gather, manage, analyze, and interpret spatially referenced data.
- Work with maps, spatially referenced databases, and range of geospatial technologies.
- Apply knowledge and awareness of ecosystems and cultural environments in order to address a range of environmental and social issues.

Bachelor of Science, Major in Geography, Geo-spatial Information Sciences

Code	Title	Hours
Bachelor of Science, Major in Geography, Geo-spatial Information Sciences		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Eight hours (two courses) of Life and Physical Sciences (beyond the Core Curriculum)		8
MATH 1342	Elementary Statistics [1]	3
or STAT 3379	Statistical Methods in Practice	
or GEOG 4374	Geostatistics	
Major: Foundation		
GEOG 1401	Weather and Climate [2]	4
GEOG 3301	Environmental Geography	3

GEOG 3350	Cultural Geography	3
Introductory Geography (Choose one from the following:) [5]		3
GEOG 1300	People, Places, and the Environment [4]	
GEOG 2355	World Regional Geography: Europe, Asia, and Australia [3]	
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia [3]	
Introductory Physical Geography (Choose one from the following:) [6]		3
GEOG 2341	Physical Geography	
GEOG 3320	Sustainability & Environment	
GEOL 1403	Physical Geology	
GEOL 1405	Geologic & Environmental Hazards	
Major: Required		
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
GEOG 3363	Computer Cartography	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4365	Applied Geographic Information Systems (GIS)	3
GEOG 4367	GIS Programming	3
GEOG 4468	Remote Sensing	4
Applied Cognate (Choose three from the following:)		9
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 4100	Earth and Environment Seminar	
GEOG 4330	Hydrology and Water Resources	
GEOG 4331	Conservation of Natural Resources	
GEOG 4333	Field Studies	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4432	Geomorphology	
Major: Prescribed Electives		
GEOG Advanced Electives [7]		4
Minor: Required [8]		
Minor (Must include at least 9 hours of advanced courses)		18
Total Hours		**120**

1 MATH 1342 satisfies the Core Curriculum requirement for Component Area II (Mathematics).

2 GEOG 1401 satisfies four credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science) OR the Degree Specific requirement for Life and Physical Science. Students who choose to apply this course towards the Geography major may also need to complete additional coursework in order to fulfill the 120 credit hour requirement.

3 GEOG 2355 and/or GEOG 2356 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture. Students who choose to apply either of these course towards the Geography major may need to complete additional coursework in order to fulfill the 120 credit hour requirement for graduation.

4 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). Students who choose to apply this course towards the Geography major may also need to complete additional coursework in order to fulfill the 120 credit hour requirement.

5 Introductory Geography Courses: GEOG 1300 also satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) while GEOG 2355 and GEOG 2356 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). Students who choose to also apply these courses towards the Geography major may need to complete additional coursework in order to fulfill the 120 credit hour requirement for graduation.

6 Introductory Physical Geography Courses: GEOL 1403 and GEOL 1405 also satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science). Students who choose to also apply these courses towards the Geography major may need to complete additional coursework in order to fulfill the 120 credit hour requirement for graduation.

7 GEOG Advanced Electives should be used to meet the 120 SCH and 42 advanced hour requirements.

8 The following minor cannot be paired with this degree program: Minor in Geo-spatial Science.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

First Year

Fall	Hours	Spring	Hours
Component Area II (p. 89)	3	ENGL 1302[1]	3
Component Area IX (p. 91)	4	GEOG 1300, 2355, or 2356[3]	3
ENGL 1301[1]	3	HSTY 1301[4]	3
GEOG 1401[2]	4	MATH 1342, STAT 3379, or GEOG 4374[5]	3
		POLS 2305[6]	3
	14		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)	4	Component Area III (p. 89)	4
GEOG 2341, 3320, GEOL 1403, or GEOL 1405[7]	3	Component Area V (p. 90)	3
GEOG 2464	4	GEOG 4361	3
HSTY 1302[4]	3	GEOG 4365	3
POLS 2306[6]	3	Minor[8]	3
	17		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	GEOG 3301	3
GEOG 3350	3	GEOG 3363	3
GEOG 4367	3	Life and Physical Sciences[9]	4
Life and Physical Sciences[9]	4	Minor/Minor Advanced [8]	6
Minor[8]	3		
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	GEOG Advanced Electives[11]	4
GEOG Applied Cognate [10]	3	GEOG Applied Cognate [10]	6
GEOG 4468	4	Minor Advanced [8]	3
Minor Advanced [8]	3		
	13		**13**

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area I (Communication).

2 Satisfies four hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Introductory Geography Courses: GEOG 1300 also satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) while GEOG 2355 and GEOG 2356 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). Students who choose to also apply these courses towards the Geography major may need to complete additional coursework in order to fulfill the 120 credit hour requirement for graduation.

4 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

5 MATH 1342 satisfies the Core Curriculum requirement for Component Area II (Mathematics).

6 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).

7 Introductory Physical Geography Courses: GEOL 1403 and GEOL 1405 also satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science). Students who choose to also apply these courses towards the Geography major may need to complete additional coursework in order to fulfill the 120 credit hour requirement for graduation.

8 The following minor cannot be paired with this degree program: Minor in Geo-spatial Sciences.

9 Life and Physical Sciences course beyond Core.

[10] See Geography Applied Cognate course listing below.
[11] GEOG Advanced Electives should be used to meet the 120 SCH and 42 advanced hours.

Code	Title	Hours
Geography Applied Cognate [10]		
Choose three from the following:		
GEOG 3310	Sustainable Development	3
GEOG 3352	Tourism Geography	3
GEOG 4100	Earth and Environment Seminar	1
GEOG 4330	Hydrology and Water Resources	3
GEOG 4331	Conservation of Natural Resources	3
GEOG 4333	Field Studies	3
GEOG 4351	Economic Geography	3
GEOG 4356	Urban Geography	3
GEOG 4357	Population Geography	3
GEOG 4359	Transportation Geography	3
GEOG 4432	Geomorphology	4

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

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The BS in Geography, Geo-spatial Information Sciences is designed to provide graduates with the following marketable skills:

- GIS programming.
- Ability to understand, identify, and synthesize environmental and population data and produce it into map form.
- GIS and map design and analysis.
- Ability to produce and interpret remotely sensed data.
- Technical writing and statistical analysis.

Bachelor of Science, Major in Geology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-geology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Geology		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2, 3]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		

CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II [2]	8
MATH 1420 & MATH 1430 or MATH 3379	Calculus I and Calculus II [1] Statistical Methods in Practice	7-8
PHYS 1301 & PHYS 1101 & PHYS 1302 & PHYS 1102	General Physics-Mechanics and Heat and General Physics Laboratory I and General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	8
Major: Foundation		
GEOL 1403 or GEOL 1405	Physical Geology Geologic & Environmental Hazards	4
GEOL 1404 & GEOL 3301	Historical Geology and Field Methods	7
GEOL 3404 & GEOL 3405	Mineralogy and Petrology	8
GEOL 4304	Geochemistry	3
GEOL 4400 & GEOL 4402 & GEOL 4360 & GEOL 4361	Stratigraphy & Sedimentation and Structural Geology and Field Geology and Field Geology	14
GEOL 4426 or GEOL 4320	Hydrogeology Petroleum Geology	3-4
Major: Prescribed Electives		
GEOL Advanced Electives		10
Minor: Required [4]		
Minor (Advanced)		6
Minor		12
Total Hours		**120-122**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

3 PHYS 1411 and PHYS 1422 also satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

4 All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-geology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
CHEM 1411[1]		4 CHEM 1412[1]		4 GEOL 3301	3
ENGL 1301[2]		3 ENGL 1302[2]		3	
GEOL 1403 or 1405		4 GEOL 1404		4	
MATH 1420[3]		4 MATH 1430 or 3379		3-4	
		15		**14-15**	**3**

Second Year

Fall	Hours	Spring	Hours
GEOL 3404	4	GEOL 3405	4
Minor [4]	3	Minor[4]	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
POLS 2305[5]	3	POLS 2306[5]	3
	14		**14**

Third Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	Component Area V (p. 90)	3
GEOL 4400	4	GEOL 4402	4
HSTY 1301[6]	3	HSTY 1302[6]	3
Minor[4]	3	Minor[4]	3
	13		**13**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area VIII (p. 90)	3	Component Area IX (p. 91)	3	GEOL 4360 & GEOL 4361	6
GEOL 4304	3	GEOL 4426 or 4320	3-4		
GEOL Advanced Electives	3	GEOL Advanced Electives	4		
GEOL Advanced Electives	3	Minor Advanced [4]	3		
Minor Advanced[4]	3				
	15		**13-14**		**6**

Total Hours: 120-122

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science). PHYS 1411 and PHYS 1422 also satisfy this requirement.
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement.
4 All minors can be paired with this degree program.
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Movement).
6 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

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The BS in Geology is designed to provide graduates with the following marketable skills:

- Observation, data collection, analysis, and interpretation.
- Prepare, process, and present data.
- Handle information in a range of different mediums, e.g. textual, numerical, oral, graphical.
- Written and verbal communication skills.

- Report writing skills.
- Problem-solving skills and lateral thinking.
- Self-motivation and resilience.
- Team-working skills and the ability to work on your own initiative.

Bachelor of Science, Major in Geology (Geoscience)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-geology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Geology (Geoscience)		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II [2]	8
Select two of the following or more advanced courses:		6-8
MATH 1314	Pre Calculus Algebra [1]	
MATH 1316	Plane Trigonometry [1]	
MATH 1410	Elementary Functions [1]	
MATH 1420	Calculus I [1]	
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
or PHYS 1411	Introduction To Physics I	
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
or PHYS 1422	Introduction To Physics II	
Major: Foundation		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic & Environmental Hazards	
GEOL 1404 & GEOL 3301	Historical Geology and Field Methods	7
GEOL 3404 & GEOL 3405	Mineralogy and Petrology	8
GEOL 4304	Geochemistry	3
GEOL 4400 & GEOL 4402	Stratigraphy & Sedimentation and Structural Geology	8
GEOL 4426	Hydrogeology	4
or GEOL 4320	Petroleum Geology	
Major: Prescribed Advanced Electives		
Advanced Geology electives		15
Minor: Required		
Minor (Advanced)		6
Minor		12
Total Hours		**120-122**

1 MATH 1410 or MATH 1420 satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option). If the mathematics requirement is satisfied by MATH 1316 and MATH 1314, then KINE 2115 is recommended to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option).

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor in geography, science, or mathematics is strongly recommended.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-geology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area IX [1]	1	CHEM 1411[3]	4	GEOL 3301	3
ENGL 1301[2]	3	ENGL 1302[2]	3		
GEOL 1403 or 1405	4	GEOL 1404	4		
MATH 1314 or 1410[1]	3-4	MATH 1420 or 1316[2]	3-4		
PHYS 1301 & PHYS 1101 (or PHYS 1411)	4				
	15-16		**14-15**		**3**

Second Year

Fall	Hours	Spring	Hours		
CHEM 1412[3]	4	GEOL 3405	4		
GEOL 3404	4	PHYS 1302 & PHYS 1102 (or PHYS 1422)	4		
Minor	3	POLS 2306[4]	3		
POLS 2305[4]	3	Minor	3		
	14		**14**		

Third Year

Fall	Hours	Spring	Hours		
Component Area IV (p. 89)	3	Component Area V (p. 90)	3		
GEOL 4400	4	GEOL 4402	4		
GEOL Advanced Elective	3	GEOL Advanced Elective	3		
HSTY 1301[5]	3	HSTY 1302[5]	3		
Minor	3	Minor	3		
	16		**16**		

Fourth Year

Fall	Hours	Spring	Hours		
Component Area VIII (p. 90)	3	Component Area IX (p. 91)	3		
GEOL 4304	3	GEOL 4426 or 4320	4		
GEOL Advanced Elective	3	GEOL Advanced Elective	3		
GEOL Advanced Elective	3	Minor (Advanced)	3		

Minor (Advanced)	3	
	15	**13**

Total Hours: 120-122

1 Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option) if MATH 1410 or MATH 1420 is included. If both MATH 1314 and MATH 1316 satisfy the mathematics requirement, then KINE 2115 is recommended to fulfill the requirement for Component Area IX (Component Area Option) requirement.
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).
4 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).
5 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor in geography, science, or mathematics is strongly recommended

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Geology (Geoscience) is designed to provide graduates with the following marketable skills:

- Observation, data collection, analysis, and interpretation.
- Prepare, process, and present data.
- Handle information in a range of different mediums, e.g. textual, numerical, oral, graphical.
- Written and verbal communication skills.
- Report writing skills.
- Problem-solving skills and lateral thinking.
- Self-motivation and resilience.
- Team-working skills and the ability to work on your own initiative.

Undergraduate Certificate in Crime Analysis and Mapping

Additional Information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/crime-analysis-and-mapping/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students take courses in the Department of Criminal Justice and Criminology and the Department of Environmental and Geosciences to learn about the criminal justice system, crime analysis, GIS and mapping, and geospatial analysis.

Code	Title	Hours
Undergraduate Certificate in Crime Analysis and Mapping		
Required Courses		
CRIJ 2361	Introduction To The Criminal Justice System	3
or CRIJ 2368	Criminal Investigation	
CRIJ 3372	Foundations of Crime Analysis	3
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
Select two from the following:		6
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	

GEOG 4365	Applied Geographic Information Systems (GIS)	
Total Hours		**16**

Students must meet the university's general admission standards. Any student who meets these standards (Minimum GPA=2.0) can be considered for admission.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Crime Analysis and Mapping is designed to provide graduates with the following marketable skills:

- Understand crime analysis concepts and techniques with a focus on spatial analysis.
- Use applied research methods to understand community crime problems.
- Integrate law enforcement-related datasets into a GIS framework.
- Analyze and map crime data using geospatial software.
- Communicate analytic purposes and results to different audiences.

Undergraduate Certificate in Geospatial Applications

Students will take geospatial courses in the Department of Environmental and Geosciences to learn about GIS and related software applications, geospatial technology, mapping, cartography, and geospatial analysis.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/geospatial-applications/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students must meet the University's general admissions standards. Any student who meets these standards (Minimum GPA = 2.0) can be considered for admission. GEOG 2464 serves as the prerequisite for all upper-level GIS courses.

Code	Title	Hours
Undergraduate Certificate in Geospatial Applications		
Required Courses		
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
GEOG 4365	Applied Geographic Information Systems (GIS)	3
Prescribed Electives		
Choose three from the following:		9-10
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4367	GIS Programming	
GEOG 4468	Remote Sensing	
Total Hours		**16-17**

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/undergrad-certificate/geospatial-applications/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX** plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Undergraduate Certificate in Geospatial Applications is designed to provide graduates with the following marketable skills:

- Apply software tools to analyze geospatial data.
- Design and create professional-quality maps.
- Use geospatial analysis to solve economic, social, and environmental problems.
- Discuss the use of GIS, remote sensing, and GPS applications in various disciplines.
- Construct workflows for geospatial projects.

Minor in Crime Analysis and Mapping

The minor in Crime Analysis and Mapping provides students with an interdisciplinary skillset with technical and analytical methods in criminal justice and geographic information systems (GIS). The minor will help students gain competencies in the basics of criminal justice, mapping and analyzing patterns that relate to crime, and perspectives on how integrating crime data with technology can lead to more robust analysis and targeting of resources for various law enforcement applications.

Code	Title	Hours
Minor in Crime Analysis and Mapping		
Required Courses		
CRIJ 2361	Introduction To The Criminal Justice System	3
or CRIJ 2368	Criminal Investigation	
CRIJ 3372	Foundations of Crime Analysis	3
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
SCST 4363	Homeland Security Intelligence	3
Select two from the following:		6
GEOG 3363	Computer Cartography	
GEOG 4075	Readings in Geography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4365	Applied Geographic Information Systems (GIS)	
Prescribed Electives		
Select one from the following:		3
CRIJ 2362	Criminology	
CRIJ 2367	Police Systems & Practices	
CRIJ 4384	Police Strategies	
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4365	Applied Geographic Information Systems (GIS)	
GEOG 4367	GIS Programming	
Total Hours		**22**

Note: Courses listed under two requirements (Required and Prescribed Electives) may only be taken once and may only fulfill one requirement.

Minor in Environmental Science

Students seeking a Minor in Environmental Science are required to complete:

Code	Title	Hours
Minor in Environmental Science (27-30 hours)		
Required Courses		
BIOL 1401	Environmental Science	4
BIOL 3320	Sustainability & Environment	3
or GEOG 3320	Sustainability & Environment	
CHEM 1411	General Chemistry I	4
or CHEM 1406	Inorganic & Environmental Chemistry	
GEOG 4331	Conservation of Natural Resources	3
or POLS 3395	Environmental Policy	
Select one of the following:		4
BIOL 1406	General Biology I [1]	
BIOL 1407	General Biology II [1]	
CHEM 1412	General Chemistry II	
GEOG 1401	Weather and Climate [1]	
GEOL 1403	Physical Geology	
GEOL 1405	Geologic & Environmental Hazards	
Select one of the following:		3-4
BIOL 3409	General Ecology	
BIOL 4330	Aquatic Biology [1]	
GEOG 4330	Hydrology and Water Resources [1]	
GEOL 3326	Environmental Geology [1]	
GEOL 4426	Hydrogeology [1]	
PLSC 3440	Soil Science [1]	
Prescribed Electives		
Select two of the following:		6-8
BIOL 1406	General Biology I [1]	
BIOL 1407	General Biology II [1]	
BIOL 3409	General Ecology	
BIOL 3461	Wildlife Biology	
BIOL 4330	Aquatic Biology [1]	
CHEM 3368	Environmental Chemistry	
CHEM 4442	Air Quality	
GEOG 1401	Weather and Climate [1]	
GEOG 2464	Introduction to Geographic Information Systems (GIS)	
GEOG 3301	Environmental Geography [1]	
GEOG 3342	Climatology	
GEOG 4330	Hydrology and Water Resources [1]	
GEOG 4432	Geomorphology	
GEOG 4468	Remote Sensing	
GEOL 1405	Geologic & Environmental Hazards	
GEOL 3326	Environmental Geology [1]	
GEOL 3330	Oceanography	
GEOL 4426	Hydrogeology [1]	
PLSC 3440	Soil Science [1]	
POLS 3395	Environmental Policy	
WMGT 2301	Principles of Wildlife Management	

WMGT 3382	Habitat & Pond Management	
Total Hours		**27-30**

[1] Course can only fulfill one requirement, either a) Required Course or b) Prescribed Elective.

Minor in Environmental Studies

The minor in environmental studies provides students with a broad range of social, historical, and scientific perspectives on the relationship between social systems and the environment. The minor includes a range of courses across the social sciences and humanities that will provide them with the skills and knowledge to engage with an array of environmental challenges at multiple scales. Students will gain competencies in: analyzing environmental issues from scientific, ethical, and policy perspectives; techniques for collecting, analyzing, and communicating environmental data; and problem-solving skills for addressing environmental issues in local communities and the broader society.

Code	Title	Hours
Minor in Environmental Studies		
Required Courses		
BIOL 1401	Environmental Science	3 or 4
or GEOG 1300	People, Places, and the Environment	
Select two of the following three course options:		6
BIOL 3320	Sustainability & Environment [1]	
or GEOG 3320	Sustainability & Environment	
GEOG 3301	Environmental Geography	
SOCI 4337	Environment And Society [2]	
or SOCI 4334	Sociology Of Disaster	
GEOG 3310	Sustainable Development	3
GEOG 4331	Conservation of Natural Resources	3
or POLS 3395	Environmental Policy	
Select one of the following:		3
GEOG 3350	Cultural Geography	
or GEOG 4356	Urban Geography	
or SOCI 3335	Food and Society	
PHIL 4334	Environmental Ethics	3
or COMS 3393	Environmental Communication	
Prescribed Electives		
Select one of the following:		3
COMS 3393	Environmental Communication	
ECON 3352	Energy and Environmental Economics	
GEOG 4351	Economic Geography	
GEOG 4357	Population Geography	
GEOL 3326	Environmental Geology	
HLTH 4390	Environmental Health	
PHIL 4334	Environmental Ethics	
POLS 3395	Environmental Policy	
SOCI 4334	Sociology Of Disaster	
SOCI 4337	Environment And Society	
Total Hours		**24-25**

[1] Select either BIOL 3320 or GEOG 3320 (students can only complete 1 of these courses).

[2] Select one of SOCI 4334 or SOCI 4337 for this block. The other may be taken as an elective but will not apply to this section.

Minor in Geography

A Minor in Geography requires 18 semester credit hours, including:

Code	Title	Hours
Minor in Geography		
Required Courses		
Select one of the following:		3
GEOG 1300	People, Places, and the Environment	
GEOG 2355	World Regional Geography: Europe, Asia, and Australia	
GEOG 2356	World Regional Geography: Latin America, Africa, South Asia	
Human or Environmental Geography: Select one of the following		3
GEOG 2341	Physical Geography	
GEOG 3301	Environmental Geography	
GEOG 3320	Sustainability & Environment	
GEOG 3350	Cultural Geography	
Geography Elective		3
Advanced Geography Electives		9
Total Hours		**18**

Minor in Geology

A Minor in Geology consists of the following courses:

Code	Title	Hours
Minor in Geology		
Required Courses		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic & Environmental Hazards	
GEOL 1404	Historical Geology	4
Advanced Geology		12
Total Hours		**20**

Minor in Geo-Spatial Science

A Minor in Geo-Spatial Science consists of the following courses:

Code	Title	Hours
Minor in Geo-Spatial Science		
Required Courses		
GEOG 2464 & GEOG 4365	Introduction to Geographic Information Systems (GIS) and Applied Geographic Information Systems (GIS)	7
Select three of the following applied courses:		9-10
GEOG 3363	Computer Cartography	
GEOG 4311	GIS in Law Enforcement	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4367	GIS Programming	
GEOG 4468	Remote Sensing	
Select one of the following Geotechnique Applications:		3-4
GEOG 4330	Hydrology and Water Resources	
GEOG 4333	Field Studies	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	

GEOG 4432	Geomorphology	
Total Hours		**19-21**

Department of Mathematics & Statistics

Chair: Dr. Damon Hay (dhay@shsu.edu) (936) 294-4859

Website: Department of Mathematics and Statistics (http://www.shsu.edu/academics/mathematics-and-statistics/)

Mathematics is a powerful tool for solving practical problems, combining logic and precision with intuition and imagination. The basic goal of mathematics is to reveal and explain patterns - whether the pattern appears as electrical impulses in an animal's nervous system, as fluctuations in stock market prices, or as fine detail of an abstract geometric figure.

Mission

The Department of Mathematics and Statistics provides all students with the opportunity to receive an educational experience in mathematics and statistics of the highest quality, both inside and outside the classroom. By actively engaging in research and professional development, the faculty promote quality scholarship among themselves as well as our students.

Goals

The Department of Mathematics and Statistics strives to:

- advance the disciplines of mathematics, mathematics education, and statistics through quality research and teaching;
- prepare future mathematicians, mathematics educators and statisticians through high quality classroom and research experiences for undergraduate and graduate students; and
- offer high quality educational experiences for undergraduates of all majors through mathematics, mathematics education, and statistics service courses.

The Department undertakes the following efforts to support these goals:

- Directs a variety of undergraduate research programs
- Provides opportunities for undergraduate and graduate student travel to professional conferences
- Coordinates numerous grants with government and education agencies
- Offers discipline-related employment opportunities to students

Career Opportunities

- Accounting and Finance
- Computer Programming
- Data Science
- Sales and Marketing
- Management and Related Positions
- Actuarial Science
- Computer Systems Analysis
- Engineering
- Statistics
- Mathematics
- Operations Research
- Modeling
- Academic Positions - High School or College

Suggested Minors

- Chemistry
- Computer Science
- Economics
- Music
- Physics
- Pre-Med/Biology
- Statistics

Program Specific Requirements

Anyone considering a degree in Mathematics should consult an advisor in the Mathematics department prior to registering for any courses. Visit LDB 420 for more information.

- Bachelor of Arts, Major in Mathematics (p. 1103)
- Bachelor of Science, Major in Data Science (p. 1108)
- Bachelor of Science, Major in Mathematics (p. 1112)
- Bachelor of Science, Double Major in Education and Mathematics (p. 615)
- Bachelor of Science, Major in Mathematics: 4+1 MS, Mathematics (p. 1115)
- Minor in Mathematics (p. 1119)
- Minor in Statistical Method (p. 1119)s
- Minor in Statistical Theory (p. 1120)
- Minor in Statistics and Data Science (p. 1121)

Student Organizations

- Student chapter of the Mathematical Association of America (MAA)
- Student chapter of the American Mathematical Society (AMS)
- Pi-Mu-Epsilon Mathematics Honor Society
- Stat Club

Internships

Possible internships exist with NASA, the National Security Agency, Actuarial Firms, and the Oil Industry. However, federally-funded Research Experiences for Undergradautes (REUs) are the most popular programs among mathematicians over the summer. REU students spend 8 weeks of the summer at a different university, doing mathematics or statistics research. Not only are all expenses paid, a pretty generous stipend is earned at the end of the summer. For more information, see the NSF page on REUs. (http://www.nsf.gov/crssprgm/reu/list_result.jsp?unitid=5044)

Scholarships

The Department of Mathematics and Statistics offers several scholarships each year and Sam Houston State University offers additional, university-wide scholarships. Additional fellowships are available for students engaged in undergraduate research. For information on departmental scholarships, contact the Department of Mathematics and Statistics. Information on University scholarships may be obtained at Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships/).

Director/Chair: **Damon Martin Hay**

Sheri Christi Aajul, MS (sca022@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Univ of Florida; BS, Univ of Florida

Upeksha Ayanthi Adikari, MS (uaa004@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Texas Tech University; BS, University of Peradeniya

Julie Nicholson Albert, MA (jna003@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MA, Sam Houston State University; BS, Appalachian State University

John G Alford, PHD (jga001@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Calif-Los Angeles

Bright Tawiah Amofa, MS (bta012@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, University of Cape Coast

Sabrin Ahmad Assi, PHD (saa084@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Houston-Main

Geraldo De Guzman Banaag, MA (gdb018@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MA, Sam Houston State University; BS, Philippine Normal Cl

Emma Kathleen Price Bullock, PHD (exb051@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Utah State University; MMATH, Utah State University; BS, Brigham Young University

Ferry Butar Butar, PHD (mth_fbb@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Lincoln; BS, Academy of Statistics; DRS, University of Indonesia

Scott Thomas Chapman, PHD (stc008@shsu.edu), *Distinguished Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Univ of N Carolina-Chapel Hill; BS, Wake Forest University; BS, Wake Forest University

Beth L Cory, PHD (blc006@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, University of Virginia - SFS; MS, Florida State University; BS, Liberty University

David A. Dippel, EDD (dad052@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, EDD, Argosy University; MS, Univ of Houston-Main; BS, Stephen F Austin University

Brandy Guntel Doleshal, PHD (bdoleshal@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Texas At Austin; BA, Indiana University; BS, Indiana University

Wen Feng, PHD (wxf008@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Kansas; MA, Univ of Kansas; BS, Beijing Normal University

Sarah Jill Fritsch, MS (sarah.fritsch@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Tiffany Nicole Fruge Jones, PHD (tfjones@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Baylor University; MS, McNeese State University; BS, McNeese State University

Di Gao, PHD (dxg085@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, North Dakota State University; MA, Univ of Missouri-Columbia; BEC, Tianjin University; BBA, Tianjin University

Farzana Hafeez, PHD (fxh021@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Oklahoma State University; MS, Univ of Central Oklahoma; MSC, Univ of Karachi; BS, Univ of Karachi

Damon Martin Hay, PHD (dhay@shsu.edu), *Associate Professor and Chair of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Texas At Austin

Melinda Ann Holt, PHD (mxm014@shsu.edu), *Professor of Statistics and Dean, COSET*, *Department of Mathematics & Statistics*, PHD, Baylor University; MA, Baylor University; BA, Baylor University

Yewen Huang, PHD (yhuang@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; BS, Hebei Normal University; BS, Hebei Normal University

Cheri Hudgeons, MS (cxh022@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Parker Jackson, MS (psj003@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

William A. Jasper, PHD (mth_waj@shsu.edu), *Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Univ of Southern California; BS, Lafayette College

Jonathan Johnson, PHD (jcj055@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Texas At Austin; MS, Univ of Texas-Arlington; BS, Univ of Texas At Dallas

Maya E Johnson, PHD (mej030@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Texas A&M University; BS, Lincoln University

Dustin L Jones, PHD (dljones@shsu.edu), *Adjunct Faculty; Associate Dean COSET and Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Univ of Missouri-Columbia; MS, Texas A&M University; BS, Southwest Baptist University

Ram Chandra Kafle, PHD (rckafle@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MS, Univ of Akron; MS, Tribhuvan University; BS, Tribhuvan University

Doo Young Kim, PHD (dkim@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Ball State University; BS, Gachon University

Naomi Lynne Krawzik, PHD (stdnlv11@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Sam Houston State University; BS, Alma College

Samuel Joseph Lippert, PHD (sjl054@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Montana; BS, Univ of Portland; BS, Univ of Portland

Cathy Lynn Lockwood, MS (cll011@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Martin E Malandro, PHD (mem037@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Dartmouth College; AM, Dartmouth College; BS, Texas Tech University

Ananda Bandulasiri Manage, PHD (amanage@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; MS, Sam Houston State University; BS, University of Kelaniya

Taylor Elizabeth Martin, PHD (taylor.martin@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Rice University; MA, Rice University; BA, Univ of Rochester; BS, Univ of Rochester

Giuseppe Martone, PHD (gxm120@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Southern California; MS, University of Rome, Sapienza; BS, University of Rome, Sapienza

Iason Vasileios Moutzouris, PHD (ixm089@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Purdue University; BS, National and Kapodistrian University of Athens

Heshan Aravinda Pathirannehelage, PHD (heshap@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Florida; MS, Univ of Florida; BSC, University of Kelaniya

Chi Hoang Do Phan, PHD (chp007@shsu.edu), *Assistant Professor of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of South Florida

Amy E Ray, PHD (aer066@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Michigan State University; MS, Michigan State University; MED, Texas Christian University; BS, Texas Christian University

Robert Wesley Reddicks, MS (rwr016@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Tamara Robert, MED (txr054@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MED, Georgia State University; BS, Univ of Alabama-Birmingham

Diego Antonio Rojas, PHD (dar117@shsu.edu), *Visiting Assistant Professor of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Iowa State University; BS, Univ of Florida; BS, Univ of Florida

Supun Thamara Samarakoon, PHD (ssamarakoon@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, University of Colombo

Stephen Mark Scariano, PHD (sms049@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; BS, Loyola Univ-New Orleans

Jooyoung Shin, PHD (jxs361@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Kent State University; MS, Kent State University; BS, Kyung Hee Univ Seoul

Janet G Sipes, PHD (jgs050@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Arizona State University; MA, Univ of Missouri-Columbia; MS, Texas Woman's University; BA, East Texas A&M

Mary B Swarthout, PHD (mbs001@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Ohio State University; MA, Miami University; BA, Berea College

Edward W. Swim, PHD (ews007@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Colorado School of Mines; BS, Angelo State University

Timothy O Trujillo, PHD (txt031@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Denver; MS, New Mexico Inst/Mining/Tech; BS, New Mexico Inst/Mining/Tech

Rawya Ahmad Tubaishat, MS (rat037@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Prairie View A&M University

Yu Wang, MS (yxw026@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Texas A&M University; BS, North Dakota State University

Ellen Lorraine Weld, PHD (elw028@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Purdue University; BS, Ball State University

Matthew Stephen Williams, MS (mww013@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Margaret Sucec Young, MED (msyoung@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MED, Sam Houston State University; BS, Texas A&M University

Marsha Muecke Young, PHD (mmy008@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Baylor University; MA, Baylor University; MS, Sam Houston State University; BS, Sam Houston State University

Linda Reichwein Zientek, PHD (lrz002@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Sam Houston State University

Bachelor of Arts, Major in Mathematics

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-mathematics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Arts, Major in Mathematics		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [1, 5]		4
Degree Specific Requirements		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	World Literature I: Before the 17th Century [5]	3
PHIL 2303	Critical Thinking [4]	3
PHYS 1411	Introduction To Physics I [2]	4
or PHYS 1422	Introduction To Physics II	
Courses for Science Majors (from Component Area III) [6]		4
WOLC 1411 & WOLC 1412 & WOLC 2311 & WOLC 2312	Beginning Foreign Language I and Beginning Foreign Language II and Intermediate Foreign Language and Intermediate Foreign Language II [3]	14
Major: Foundation		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction to Mathematics Thought	3
MATH 3377	Introduction to Linear Algebra and Matrices	3
MATH 4361	Introductory Analysis	3
MATH 4366	Elementary Analysis	3
MATH 4371	Theory and Applications of Probability and Statistics I	3
MATH 4377	Algebraic Structures	3
Major: Prescribed Electives		
Prescribed MATH Electives [7]		12
Electives: Advanced		
Advanced Electives		7
Minor: Required [8,9]		
Minor (Including 6 advanced hrs) [8,9]		18
Total Hours		**120**

1. MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).
2. PHYS 1411 or PHYS 1422 satisfies 4 hours of Core Curriculum requirement for Component Area III (Life and Physical Sciences)
3. WOLC 2311 satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
4. PHIL 2303 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5. ENGL 2332 satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).
6. See the Courses for Science Majors Course List (from Component Area III) below.
7. Prescribed MATH Electives do not include MATH 3379/STAT 3379, MATH 3380, MATH 3381, MATH 3383, MATH 3384, MATH 3386, MATH 3387, MATH 4384, and MATH 4385.

[8] Students should use the Minor and Advanced Electives to complete the 42-advanced hour requirement for graduation.
[9] The following minor cannot be paired with this degree program: Minor in Mathematics.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use the Minor and Advanced Electives to complete the 42-advanced hour requirement for graduation.

Anyone considering a degree in Mathematics should consult an Advisor in the Department of Mathematics prior to registering for any courses. For more information, please, visit the Lee Drain Building, Room 420.

In order to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), except for the Department of Physics, the student must take classes from the following:

Code	Title	Hours
Courses for Science Majors (from Component Area III) [6]		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2401	Human Anatomy	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Any lab course from Geology or Geography		

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-mathematics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (Courses for Science Majors)[1]	4	ENGL 1302[2]	3
ENGL 1301[2]	3	HSTY 1302[3]	3
HSTY 1301[3]	3	MATH 1430	4
MATH 1420[4]	4	PHYS 1411 or 1422[5]	4
	14		**14**

Second Year

Fall	Hours	Spring	Hours
MATH 2440	4	MATH 3377	3
MATH 3300	3	Minor[7,8]	3
POLS 2305[6]	3	PHIL 2303[9]	3
WOLC 1411	4	POLS 2306[6]	3
		WOLC 1412	4
	14		**16**

Third Year

Fall	Hours	Spring	Hours
ENGL 2332[10]	3	COSC 1436	4
MATH 4361	3	MATH 4366	3
MATH 4371	3	MATH Prescribed Electives[12]	3
Minor Advanced[7,8]	3	Minor[7,8]	3
WOLC 2311[11]	3	WOLC 2312	3
	15		**16**

Fourth Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 Advanced Electives	3
MATH 4377		3 General Electives	1
MATH Prescribed Electives[12]		3 MATH Prescribed Electives[12]	6
Advanced Electives		3 Minor Advanced[7,8]	3
Minor[7,8]		3 Minor [7,8]	3
		15	**16**

Total Hours: 120

1 See Courses for Science Majors (from Component Area III) course list below.
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).
5 Satisfies 4 hours of Core Curriculum requirement for Component Area III (Life and Physical Sciences).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 Students should use the Minor and Advanced Electives to complete the 42-advanced hour requirement for graduation.
8 The following minor cannot be paired with this degree program: Minor in Mathematics.
9 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
10 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
11 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
12 Prescribed MATH electives do not include MATH 3379,STAT 3379 MATH 3380, MATH 3381, MATH 3383, MATH 3384, MATH 3386, MATH 3387, MATH 4384, and MATH 4385.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use the Minor and Advanced Electives to complete the 42-advanced hour requirement for graduation.

Anyone considering a degree in Mathematics should consult an Advisor in the Department of Mathematics prior to registering for any courses. For more information, please, visit the Lee Drain Building, Room 420.

In order to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), except for the Department of Physics, the student must take classes from the following:

Code	Title	Hours
Courses for Science Majors (from Component Area III) [1]		
BIOL 1406	General Biology I	4
BIOL 1407	General Biology II	4
BIOL 2401	Human Anatomy	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Any lab course from Geology or Geography		

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Mathematics is designed to provide graduates with the following marketable skills:

- Ability to apply appropriate mathematical methods to data and problem solving.
- Ability to learn, synthesize and explain sophisticated information.

- Proficiency in scientific computing environments, databases and programming languages, such as Matlab, Mathematica, SageMath, Excel, Java and Python.

Bachelor of Science, Major in Data Science

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-data-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Data Science		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) (Courses for Science Majors)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
MATH 1420	Calculus I [1]	4
Major: Foundation		
BANA 4373	Advanced Business Analytics for Economics and Business	3
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 3318	Data Base Management Systems	3
MATH 1430	Calculus II	4
MATH 3377	Introduction to Linear Algebra and Matrices	3
STAT 3379	Statistical Methods in Practice	3
STAT 3381	Sample Survey Methods	3
STAT 3382	Introduction to Statistical Computing	3
STAT 3385	Statistical Methods for Data Science	3
STAT 4371	Theory and Applications of Probability and Statistics I	3
STAT 4373	Nonparametric Statistics	3
STAT 4374	Regression Modeling & Analysis	3
STAT 4390	Introduction to Statistical Learning	3
Major: Concentration		
Select one concentration from below options: [2]		33-34
Statistics		
Computer Science		
Economics		
Minor: Not Required [3]		
Total Hours		**120-121**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option). MATH 1420 fulfills the prerequisite requirement for MATH 1430.

2 Select one Concentration (Statistics, Computer Science, or Economics) from the options below.

3 A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Code	Title	Hours
Major: Concentration (Statistics) [2]		
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
ECON 2300	Introduction To Economics [1]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
STAT 4372	Theory and Applications of Probability and Statistics II	3
Select three from the following:		9
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 4370	Special Topics in Statistics	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
Select three from the following:		9-10
MATH 2395	Discrete Mathematics	
MATH 2440	Calculus III	
MATH 3300	Introduction to Mathematics Thought	
MATH 3350	Theory of Interest	
MATH 3376	Differential Equations	
MATH 3394	Numerical Methods	
MATH 4361	Introductory Analysis	
MATH 4366	Elementary Analysis	
MATH 4370	Special Topics in Mathematics	
General Electives		8
Total Hours		**33-34**

[1] ECON 2300, ECON 2301, and ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Code	Title	Hours
Major: Concentration (Computer Science) [2]		
COSC 3337	Information Systems Design & Management	3
COSC 4320	System Modeling and Simulation	3
ECON 2300	Introduction To Economics [1]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
Select two from the following:		6
COSC 2347	Special Topics/Programming	
COSC 3319	Data Structures and Algorithms	
COSC 4314	Data Mining	
COSC 4340	Special Topics in Computer Science	
Select three from the following:		9
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 4370	Special Topics in Statistics	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
Select two from the following:		6-7
MATH 2395	Discrete Mathematics	

MATH 2440	Calculus III	
MATH 3300	Introduction to Mathematics Thought	
MATH 3350	Theory of Interest	
MATH 3376	Differential Equations	
MATH 3394	Numerical Methods	
MATH 4361	Introductory Analysis	
MATH 4366	Elementary Analysis	
MATH 4370	Special Topics in Mathematics	
MATH 4372	Theory and Applications of Probability and Statistics II	
General Electives		6
Total Hours		**33-34**

[1] ECON 2300, ECON 2301, and ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Code	Title	Hours
Major: Concentration (Economics) [2]		
ECON 2301	Principles Of Macroeconomics [1]	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3357	Intermediate Microeconomics	3
ECON 3372	Intermediate Macroeconomics	3
ECON 4362	Econometrics for Business	3
Select three from the following:		9
ECON 3000-4000 or BANA 4000		
Select two from the following:		6-7
MATH 2395	Discrete Mathematics	
MATH 2440	Calculus III	
MATH 3300	Introduction to Mathematics Thought	
MATH 3350	Theory of Interest	
MATH 3376	Differential Equations	
MATH 3394	Numerical Methods	
MATH 4361	Introductory Analysis	
MATH 4366	Elementary Analysis	
MATH 4370	Special Topics in Mathematics	
MATH 4372	Theory and Applications of Probability and Statistics II	
General Electives		6
Total Hours		**33-34**

[1] ECON 2301 and ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-data-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)		4 Component Area III (p. 89)	4
ENGL 1301[1]		3 ENGL 1302[1]	3
HSTY 1301[2]		3 HSTY 1302[2]	3
MATH 1420[3]		4 MATH 1430	4
		14	**14**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)		3 Concentration[5]	3-4
Component Area IX (p. 91)		3 COSC 1437	4

COSC 1436		4 POLS 2306[4]	3
POLS 2305[4]		3 STAT 3382	3
STAT 3379		3 STAT 3385	3
		16	**16-17**

Third Year

Fall	Hours	Spring	Hours
Component Area V (p. 90)		3 Component Area VIII (p. 90)[6]	3
COSC 3318		3 Concentration [5]	9
MATH 3377		3 STAT 4373	3
STAT 3381		3	
STAT 4371		3	
		15	**15**

Fourth Year

Fall	Hours	Spring	Hours
Concentration [5]		9 BANA 4373	3
STAT 4374		3 Concentration [5]	12
STAT 4390		3	
		15	**15**

Total Hours: 120-121

1 ENGL 1301 and ENGL 1302 satisfy the Core Curriculum requirement for Component Area I (Communication).
2 HSTY 1301 and HSTY 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).
3 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option). MATH 1420 fulfills the prerequisite requirement for MATH 1430.
4 POLS 2305 and POLS 2306 satisfy the Core Curriculum requirement for Component Area VII (Political Science/Government).
5 Select one Concentration (Statistics, Computer Science, or Economics) from the options below.
6 ECON 2300, ECON 2301, and ECON 2302 satisfy the Core Curriculum Requirement for Component Area VIII (Social and Behavioral Sciences).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so, additional semester credit hours may be needed above the degree program's stated total semester credit hours.

Code	Title	Hours
Major: Concentration (Statistics) [5]		
GEOG 2464	Introduction to Geographic Information Systems (GIS)	4
ECON 2300	Introduction To Economics [1]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
STAT 4372	Theory and Applications of Probability and Statistics II	3
Select three from the following:		9
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 4370	Special Topics in Statistics	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
Select three from the following:		9-10
MATH 2395	Discrete Mathematics	

MATH 2440	Calculus III	
MATH 3300	Introduction to Mathematics Thought	
MATH 3350	Theory of Interest	
MATH 3376	Differential Equations	
MATH 3394	Numerical Methods	
MATH 4361	Introductory Analysis	
MATH 4366	Elementary Analysis	
MATH 4370	Special Topics in Mathematics	
General Electives		8
Total Hours		**33-34**

[1] ECON 2300, ECON 2301, and ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Code	Title	Hours
Major: Concentration (Computer Science) [5]		
COSC 3337	Information Systems Design & Management	3
COSC 4320	System Modeling and Simulation	3
ECON 2300	Introduction To Economics [1]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
Select two from the following:		6
COSC 2347	Special Topics/Programming	
COSC 3319	Data Structures and Algorithms	
COSC 4314	Data Mining	
COSC 4340	Special Topics in Computer Science	
Select three from the following:		9
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 4370	Special Topics in Statistics	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
Select two from the following:		6-7
MATH 2395	Discrete Mathematics	
MATH 2440	Calculus III	
MATH 3300	Introduction to Mathematics Thought	
MATH 3350	Theory of Interest	
MATH 3376	Differential Equations	
MATH 3394	Numerical Methods	
MATH 4361	Introductory Analysis	
MATH 4366	Elementary Analysis	
MATH 4370	Special Topics in Mathematics	
MATH 4372	Theory and Applications of Probability and Statistics II	
General Electives		6
Total Hours		**33-34**

[1] ECON 2300, ECON 2301, and ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Code	Title	Hours
Major: Concentration (Economics) [5]		
ECON 2301	Principles Of Macroeconomics [1]	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3357	Intermediate Microeconomics	3

ECON 3372	Intermediate Macroeconomics	3
ECON 4362	Econometrics for Business	3
Select three from the following:		9
ECON 3000-4000 or BANA 4000		
Select two from the following:		6-7
MATH 2395	Discrete Mathematics	
MATH 2440	Calculus III	
MATH 3300	Introduction to Mathematics Thought	
MATH 3350	Theory of Interest	
MATH 3376	Differential Equations	
MATH 3394	Numerical Methods	
MATH 4361	Introductory Analysis	
MATH 4366	Elementary Analysis	
MATH 4370	Special Topics in Mathematics	
MATH 4372	Theory and Applications of Probability and Statistics II	
General Electives		6
Total Hours		**33-34**

[1] ECON 2301 and ECON 2302 satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Data Science is designed to provide graduates with the following marketable skills:

- Use critical thinking skills, along with inductive and deductive reasoning, to translate substantive questions into well-defined problems requiring effective, on-time solutions.
- Develop the competence and capacity for data collection, data wrangling, and data visualization techniques for pursuing real world problems.
- Utilize programming and database management skills to organize and analyze data effectively, including capabilities for developing statistical/predictive modeling.
- Apply statistical/machine learning techniques for model-building and testing, while also being effective in applying other data science methodologies to provide actionable insights.
- Demonstrate efficient and effective written and oral communication skills necessary for presenting problem solutions and results to both data-oriented and non-data-oriented stakeholders.

These skills will be introduced and continually refined, at the appropriate developmental levels, as students progress through the curriculum.

Bachelor of Science, Major in Mathematics

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-mathematics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Mathematics		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
Science Courses for Science Majors - Select 8 hours from the following: [2]		8
BIOL 1406 & BIOL 1407	General Biology I and General Biology II	
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	
Eight hours from GEOL 1403, GEOL 1404, GEOL 1405, GEOG 1401		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
PHYS 1411 & PHYS 1422	Introduction To Physics I and Introduction To Physics II	8
or PHYS 2426	Heat, Waves & Modern Physics	
Major: Foundation		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction to Mathematics Thought	3
MATH 3376	Differential Equations	3
MATH 3377	Introduction to Linear Algebra and Matrices	3
MATH 4361	Introductory Analysis	3
MATH 4366	Elementary Analysis	3
MATH 4371	Theory and Applications of Probability and Statistics I	3
MATH 4377	Algebraic Structures	3
Major: Prescribed Electives		
Advanced MATH Electives [4]		6
Electives: General		
General Electives		13
Minor: Required		
Minor [5,6]		18
Total Hours		**120**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

[4] Advanced MATH electives do not include MATH 3363, MATH 3379/STAT 3379, MATH 3380, MATH 3381, MATH 3383, MATH 3384, MATH 3386, MATH 3387, MATH 4367, MATH 4384, and MATH 4385.
[5] Includes at least nine hours of advanced coursework.
[6] The following minor cannot be paired with this degree program: Minor in Mathematics.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.5 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Minor includes at least nine hours of advanced coursework.

Students should use the minor and electives to complete the 42-advanced hour requirement for graduation.

Anyone considering a degree in Mathematics should consult an advisor in the Department of Mathematics prior to registering for any courses. For more information, please, visit the Lee Drain Building, Room 420.

In order to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), except in the Department of Physics, the student must take 8 semester credit hours of classes from the following:

Code	Title	Hours
Required Courses		
BIOL 1406 & BIOL 1407	General Biology I and General Biology II	8
or CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	

Eight hours from GEOL 1403, GEOL 1404, GEOL 1405, GEOG 1401

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-degree-in-mathematics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]		4 Component Area III (p. 89)[1]	4
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1420[4]		4 MATH 1430	4
		14	**14**

Second Year

Fall	Hours	Spring	Hours
Component Area IX (p. 91)		3 MATH 3376	3
MATH 2440		4 MATH 3377	3
MATH 3300		3 Minor [6]	3
PHYS 1411		4 PHYS 1422 or 2426	4
POLS 2305[5]		3 POLS 2306[5]	3
		17	**16**

Third Year

Fall	Hours	Spring	Hours
COSC 1436		4 Component Area V (p. 90)	3
General Electives		1 ENGL 2332 or 2333[7]	3
MATH 4361		3 MATH 4366	3
MATH 4371		3 MATH Advanced Electives[8]	3
Minor [6]		3 Minor [6]	3
		14	**15**

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)		3 General Electives	3
General Electives		3 General Electives	3
MATH 4377		3 General Electives	3
MATH Advanced Electives[8]		3 Minor Advanced [6]	3
Minor Advanced [6]		3 Minor Advanced[6]	3
		15	**15**

Total Hours: 120

1 Science Course for Science Majors: BIOL 1406 and BIOL 1407 or CHEM 1411 and CHEM 1412.
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 The following minor cannot be paired with this degree program: Minor in Mathematics.
7 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
8 Advanced MATH electives do not include MATH 3363, MATH 3379/STAT 3379, MATH 3380, MATH 3381, MATH 3383, MATH 3384, MATH 3386, MATH 3387, MATH 4367, MATH 4384, and MATH 4385.

Notes

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Minor includes at least nine hours of advanced coursework.

Students should use the minor and electives to complete the 42-advanced hour requirement for graduation.

Anyone considering a degree in Mathematics should consult an advisor in the Department of Mathematics prior to registering for any courses. For more information, please, visit the Lee Drain Building, Room 420.

In order to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), except in the Department of Physics, the student must take 8 semester credit hours of classes from the following:

Code	Title	Hours
Required Courses		
BIOL 1406 & BIOL 1407	General Biology I and General Biology II	8
or CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	
Eight hours from GEOL 1403, GEOL 1404, GEOL 1405, GEOG 1401		8

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Mathematics is designed to provide graduates with the following marketable skills:

- Learn, synthesize, and explain sophisticated information.
- Simplify complex problems by generating hypotheses and recognizing fundamental principles.
- Apply logic and quantitative reasoning to solve problems in science and technology.
- Perform proficiently in scientific computing environments, databases and programming languages such as Matlab, Mathematica, SageMath, Excel, Java, and Python.

Bachelor of Science, Major in Mathematics: 4+1 MS Mathematics

Code	Title	Hours
Bachelor of Science, Major in Mathematics: 4+1 MS in Mathematics		
Core Curriculum (p. 88)		
Component Area I (Communications)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
Science Courses for Science Majors - Select eight hours from the following: [2]		8
BIOL 1406 & BIOL 1407	General Biology I and General Biology II	
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	
Eight hours from GEOG 1401, GEOL 1403, GEOL 1404, GEOL 1405		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	World Literature I: Before the 17th Century [3]	3
or ENGL 2333	World Literature II: From the 17th Century and After	
KINE 2115	Lifetime Health and Wellness [4]	1
PHYS 1411 & PHYS 1422	Introduction To Physics I and Introduction To Physics II	8
or PHYS 2426	Heat, Waves & Modern Physics	
Major: Foundation		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction to Mathematics Thought	3
MATH 3376	Differential Equations	3
MATH 3377	Introduction to Linear Algebra and Matrices	3
MATH 4361	Introductory Analysis	3
MATH 4366	Elementary Analysis	3
MATH 4371	Theory and Applications of Probability and Statistics I	3
MATH 4377	Algebraic Structures	3
Major: Prescribed Electives		
Advanced MATH Electives [5]		6
Electives: General		
Advanced General Electives		6
Minor: Required		
Minor [6, 7]		18
4+1 MS in Mathematics [8]		
MATH 5397	Discrete Mathematics	3
MATH 6332	Introduction To Topology	3
MATH 6333	Foundations Of Analysis I	3
MATH 6334	Foundations Of Analysis II	3
MATH 6335	Algebra I	3
MATH 6336	Algebra II	3
MATH 6361	Mathematical Logic	3

MATH 6368	Numerical Linear Algebra	3
Graduate MATH Electives		
Select graduate courses in MATH in consultation with the Graduate Advisor		12
Thesis OR Project + Internship		**6**
Thesis		
MATH 6099	Research and Thesis	
MATH 6398	Research And Thesis	
Project + Internship		
MATH 5300	Mathematics Internship	
MATH 6380	Research Methods in Mathematics	
Total Hours		**156**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

4 If KINE 2115 is used to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), an additional credit hour will be needed as a General Elective.

5 Advanced MATH electives do not include MATH 3363, MATH 3379/STAT 3379, MATH 3380, MATH 3381, MATH 3383, MATH 3384, MATH 3386, MATH 3387, MATH 4367, MATH 4384, and MATH 4385. (MATH 3363, MATH 4367, MATH 4384, and MATH 4385 are designed for students in the BS, Double Major in Education and Mathematics.)

6 Minor includes at least nine hours of advanced coursework.

7 The following minor cannot be paired with this degree program: Minor in Mathematics.

8 Students planning to pursue the 4+1 Mathematics option must complete the Graduate Application process and be accepted to the MS in Mathematics program. In order to apply to the 4+1 Mathematics program, students must complete all undergraduate degree plan requirements (minimum of 120 semester credit hours) and all admission requirements. Once a student is accepted to the graduate Mathematics program, students are eligible to begin the Mathematics program upon completion of all admission requirements.

Code	Title	Hours
Undergraduate/Graduate Course Crosswalk		
The undergraduate course requirements identified below are satisfied by the corresponding (row) graduate courses identified below.		
Undergraduate Level Courses		
MATH 4369	Foundations of Analysis (satisfied by MATH 6333)	3
MATH 4378	Abstract Algebra (satisfied by MATH 6335)	3
Graduate Level Course Replacements		
MATH 6333	Foundations Of Analysis I	3
MATH 6335	Algebra I	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Mathematics degree.

Students must meet a 2.5 minimum overall major GPA in all major coursework to complete the BS in Mathematics degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Mathematics degree.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework to complete the BS in Mathematics degree.

Students should use the Minor and Advanced Electives to complete the 42-advanced hour requirement for graduation.

Anyone considering a degree in Mathematics should consult an advisor in the Department of Mathematics prior to registering for any courses. For more information, please visit the Lee Drain Building, Suite 420.

First Year

Fall	Hours	Spring	Hours
Component Area III (p. 89)[1]	4	Component Area III (p. 89)[1]	4
COSC 1436	4	Component Area V (p. 90)	3

ENGL 1301[2]	3	ENGL 1302[2]	3
KINE 2115[3]	1	MATH 1430	4
MATH 1420[4]	4	MATH 3377	3
	16		**17**

Second Year

Fall	Hours	Spring	Hours
ENGL 2332 or 2333[5]	3	Component Area IX (p. 91)	3
MATH 2440	4	Advanced MATH Electives[6]	6
MATH 3376	3	MATH 3300	3
MATH 4371	3	PHYS 1422 or 2426	4
PHYS 1411	4		
	17		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	HSTY 1302[7]	3
Advanced MATH Electives[6]	3	MATH 4366	3
HSTY 1301[7]	3	MATH 4377	3
MATH 4361	3	Minor Electives[8]	6
Minor Electives[8]	3	POLS 2306[9]	3
POLS 2305[9]	3		
	18		**18**

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
General Electives	3	MATH 6332	3	Graduate MATH Electives[10]	3
MATH 6333	3	MATH 6334	3	Thesis or Project + Internship[11]	6
MATH 6335	3	MATH 6336	3		
Minor Electives[8]	9				
	18		**9**		**9**

Fifth Year

Fall	Hours	Spring	Hours
Graduate MATH Electives[10]	3	Graduate MATH Electives[10]	6
MATH 6368	3	MATH 5397	3
MATH 6379	3		
	9		**9**

Total Hours: 156

1 Science Courses for Science Majors: BIOL 1406 and BIOL 1407 or CHEM 1411 and CHEM 1412 or eight hours from GEOG 1401, GEOL 1403, GEOL 1404, GEOL 1405.

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 If KINE 2115 is used to satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), an additional credit hour will be needed as a General Elective.

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

5 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

6 Advanced MATH electives do not include MATH 3363, MATH 3379/STAT 3379, MATH 3380, MATH 3381, MATH 3383, MATH 3384, MATH 3386, MATH 3387, MATH 4367, MATH 4384, and MATH 4385. (MATH 3363, MATH 4367, MATH 4384, and MATH 4385 are designed for students in the BS, Double Major in Education and Mathematics.)

7 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[8] The following minor cannot be paired with this degree program: Minor in Mathematics.
[9] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
[10] Select graduate courses in MATH in consultation with the Graduate Advisor.
[11] Students choosing the Thesis option must take MATH 6099 and MATH 6398. Students choosing the Project + Internship option must take MATH 5300 and MATH 6380.

Code	Title	Hours
Undergraduate/Graduate Course Crosswalk		
The undergraduate course requirements identified below are being satisfied by the corresponding (row) graduate courses identified below.		
Undergraduate Level Courses		
MATH 4369	Foundations of Analysis (satisfied by MATH 6333)	3
MATH 4378	Abstract Algebra (satisfied by MATH 6335)	3
Graduate Level Course Replacements		
MATH 6333	Foundations Of Analysis I	3
MATH 6335	Algebra I	3

Notes

Students must earn a 2.0 minimum overall GPA in all coursework to complete the BS in Mathematics degree.

Students must meet a 2.5 minimum overall major GPA in all major coursework to complete the BS in Mathematics degree.

Students must earn a 2.0 minimum SHSU GPA in all coursework to complete the BS in Mathematics degree.

Students must meet a 2.5 minimum SHSU major GPA in all major coursework to complete the BS in Mathematics degree.

Students should use the Minor and Advanced Electives to complete the 42-advanced hour requirement for graduation.

Anyone considering a degree in Mathematics should consult an advisor in the Department of Mathematics prior to registering for any courses. For more information, please visit the Lee Drain Building, Suite 420.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Mathematics: 4+1 MS in Mathematics is designed to provide graduates with the following marketable skills:

- Expertise in mathematical analysis and problem solving that is applicable in a wide variety of industry-related positions.
- Expertise in mathematical writing.
- Experience in multiple phases of course preparation and teaching of mathematics at the freshman level.
- Preparation for further study at the doctoral level in mathematics and closely related areas.
- Proficiency in a variety of scientific computing environments and programming languages.

Minor in Mathematics

A Minor in Mathematics includes the following courses:

Code	Title	Hours
Minor in Mathematics [1]		
Required Courses		
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
Select one of the following: [2]		10
MATH 2440	Calculus III (and 6 semester hours of advanced mathematics with no more than 3 hours of courses cross-listed with STAT)	
10 semester hours of advanced mathematics with no more than 3 hours of courses cross-listed with STAT; excluding MATH 3379/ STAT 3379		
Total Hours		**18**

1 A student's major program of study may also impose requirements on a minor in mathematics. Thus, the selection of courses for a mathematics minor should be made with the counsel of the major advisor and a mathematics advisor.

2 MATH 3380, MATH 3381, MATH 3382, MATH 3383, MATH 3384, MATH 3386, MATH 3387, MATH 4384, MATH 4385, and MATH 3379 / STAT 3379 may not used as advanced mathematics electives toward the Minor in Mathematics.

Minor in Statistical Methods

A Minor in Statistical Methods consists of the following courses:

Code	Title	Hours
Minor in Statistical Methods		
Required Courses		
Select six of the following		18
STAT 3379	Statistical Methods in Practice	
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 3381	Sample Survey Methods	
STAT 3382	Introduction to Statistical Computing	
STAT 4370	Special Topics in Statistics	
STAT 4373	Nonparametric Statistics	
STAT 4374	Regression Modeling & Analysis	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
STAT 4390	Introduction to Statistical Learning	
STAT 4090	Independent Study	
Total Hours		**18**

Special topics courses include choices, such as Survival Modeling and Biostatistics.

A **concentration** of twelve semester hours is appropriate for students who need an understanding of statistics to augment study in another field but who do not require a minor in statistics. A typical concentration might consist of:

Code	Title	Hours
Courses Required		
STAT 3379	Statistical Methods in Practice	3
Select three of the following:		9
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 3381	Sample Survey Methods	
STAT 3382	Introduction to Statistical Computing	
STAT 4370	Special Topics in Statistics	

STAT 4371	Theory and Applications of Probability and Statistics I	
STAT 4372	Theory and Applications of Probability and Statistics II	
STAT 4373	Nonparametric Statistics	
STAT 4374	Regression Modeling & Analysis	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
STAT 4390	Introduction to Statistical Learning	
STAT 4090	Independent Study	
Total Hours		**12**

Minor in Statistical Theory

A Minor in Statistical Theory consists of the following courses:

Code	Title	Hours
Minor in Statistical Theory		
Required Courses		
MATH 1430	Calculus II [1]	4
STAT 4371	Theory and Applications of Probability and Statistics I	3
STAT 4372	Theory and Applications of Probability and Statistics II	3
Select four of the following:		12
STAT 3379	Statistical Methods in Practice	
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 3381	Sample Survey Methods	
STAT 3382	Introduction to Statistical Computing	
STAT 4370	Special Topics in Statistics	
STAT 4373	Nonparametric Statistics	
STAT 4374	Regression Modeling & Analysis	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
STAT 4390	Introduction to Statistical Learning	
STAT 4090	Independent Study	
Total Hours		**22**

[1] The prerequisite to this, MATH 1420, should be taken to complete Core Curriculum Area II (Mathematics). MATH 1430 may satisfy both major and minor requirements.

Minor in Statistics and Data Science

The Minor in Statistics and Data Science is designed to provide students with the knowledge, skills, and competencies to work in an increasingly data-driven world. Data science is a field of study that combines domain expertise, knowledge of mathematics and statistics, and programming skills to extract meaningful insights from data.

Students with the Minor in Statistics and Data Science may not also select the Minor in Statistical Methods.

Code	Title	Hours
Minor in Statistics and Data Science		
Required Courses		
STAT 3379	Statistical Methods in Practice	3
or STAT 3390	Probability and Statistics for Sciences	
STAT 3385	Statistical Methods for Data Science	3
STAT 4374	Regression Modeling & Analysis	3
STAT 4390	Introduction to Statistical Learning	3
Prescribed Electives		
Select two from the following:		6
STAT 3380	Statistical Design and Analysis of Experiments	
STAT 3381	Sample Survey Methods	
STAT 3382	Introduction to Statistical Computing	
STAT 4370	Special Topics in Statistics	
STAT 4371	Theory and Applications of Probability and Statistics I	
STAT 4372	Theory and Applications of Probability and Statistics II	
STAT 4373	Nonparametric Statistics	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
STAT 4377	Introduction to Applied Bayesian Analysis	
Total Hours		**18**

Department of Physics and Astronomy

Chair: Joel W. Walker, Ph.D. (jwalker@shsu.edu) (936) 294-4803

Website: Department of Physics and Astronomy (http://www.shsu.edu/academics/physics/)

Program Summary

Physics, Astronomy, and Pre-Engineering are for creative and curiously-minded students who want a shot at cracking Nature's secret source code — people who are excited by questions like “What happened right after the Big Bang?”, “How does time warp near a black hole?”, or “Can atomic systems coexist in multiple realities at once?”

Physics, Astronomy, and Pre-Engineering are for inventive and enterprising students who want to design humanity's future — people who are motivated by questions like "Can clean fusion energy propel equitable access to technology and resources?", "How will quantum computing revolutionize our link with information?", or "When will self-sustaining communities be established on Mars?"

Physicists work to understand the most basic laws of nature in the most simple and general way possible. Engineers (and physicists) apply this understanding to creatively solve design problems in every facet of modern life. Our faculty specialize in Materials Science (exploring properties of dense atomic systems computationally and with x-ray / atomic-force imaging, and designing superior molecular compounds for engineering applications like batteries and superconductors) and Particle Physics (theory and high-performance computer simulation involving elementary constituents of matter and their interactions, the Large Hadron Collider in Switzerland, the search for dark matter, gravitational waves, axions, and mysterious properties of the neutrino).

Astronomers seek to understand our place in the Universe, and to unravel clues about its history from light reaching us across the expanse of space. Our faculty take a special interest in the data-based improvement of approaches to science education, and have research expertise in the topics of stellar spectroscopy and ionized gas in spiral galaxies. The new Dominey Observatory is home to an amazing 27" telescope, and the entire facility is fully wheelchair accessible. There are also several smaller telescopes for individual stargazing, and our indoor planetarium provides immersive simulations of the night sky as viewed from any location and date.

Academic Programs

The department offers a Bachelor of Science degree in Physics, a Minor in Astronomy, and several options for Pre-Engineering. Physics and Engineering go together very well, because so much of Engineering is built upon the underlying foundation of Physics.

For students considering Pre-Engineering vs. Engineering Technology, it is very important to understand the similarities and differences between these programs. Engineering tracks include significantly more Math (especially Calculus) than Technology tracks do, leading to very different careers. The Accreditation Board for Engineering and Technology (ABET) says that Engineering programs often focus on theory and conceptual design, while Technology programs usually focus on application and implementation. Engineers often do work involving original research and development, and many continue on to Masters or Doctoral programs in Engineering. Technologists are most likely to work in construction, manufacturing, product design, testing, or technical services and sales. Students interested in Engineering are supervised by the Department of Physics and Astronomy. Students interested in Technology are supervised by the Department of Engineering Technology.

In our Dual Degree (p. 1126) (3/2) program, students earn two degrees, one in Physics and one in Engineering. This starts with three years at SHSU, completing the Core Curriculum, the Calculus and Physics introductory sequence, and a portion of the upper division Physics Curriculum. Students then transfer to an accredited Engineering program (such as UT Tyler) for the last two years of degree work. After completion of the Engineering Degree, credits are retroactively transferred back to SHSU so that the Physics Degree can be awarded simultaneously.

For our Pre-Engineering (2/2) tracks in Civil (p. 1133), Mechanical (p. 1137), and Electrical (p. 1135) Engineering, students earn a single degree in Engineering. Students transfer to an accredited Engineering Program (such as UT Tyler) after completing two years at SHSU.

Our transfer articulation agreement with the University of Texas at Tyler (UT Tyler) makes matching credits a seamless process and guarantees acceptance for students meeting GPA requirements. This agreement holds for the main campus in Tyler and also for the new Houston Engineering Center branch campus. However, students are also free to continue their study at any institution with an accredited Engineering program.

The Bachelor of Science degree in Physical Science with Secondary Certification is available to students seeking careers in secondary education.

The Minor in Physics pairs well with other Science, Technology, Engineering, and Mathematics (STEM) majors. It also complements a number of cross-over careers such as Science Journalism, and K-12 Science Education.

Career Opportunities

A degree in Physics or Pre-Engineering leads to many profitable career options because it develops marketable attributes and skills that employers are greatly interested in. This includes mental flexibility, capacity for critical though, abstraction and generalization, training in creative problem

solving, intuition for mechanical and electrical systems, and proficiency in advanced mathematics, data analysis, and computer applications (including programming).

According to the American Institute of Physics (AIP), across the country, 95% of Physics Bachelors are either employed or enrolled in graduate school one year after graduation. PhD students in physics and astronomy usually receive a full tuition waiver plus a substantial wage or stipend. In the private sector, about 35% of graduates do engineering, 25% do computing or information, and 15% take other STEM-related jobs, all with competitive starting salaries. A shortage of high-school physics instructors means that plenty of attractive and well-paid teaching positions are currently accepting applications across the state.

Program Specific Information

Sam Houston State University is a wonderful place to study Physics, Astronomy, and Pre-Engineering. We provide an outstanding educational environment, with small class sizes, extensive personalized attention, and expert instruction. Our students build strong resumes with hands-on faculty-directed research experiences (in topics such as Particle Physics, Materials Science, and Astronomy Education), and have the option to work as paid assistants for introductory laboratory sessions. Most of our students receive scholarship assistance directly from the department and its donors, in amounts up to $5,000 per year for outstanding candidates.

All students interested in Physics or Pre-Engineering enroll in the Physics Bootcamp (PHYS 1401) during their first semester on campus. This ensures that students master the math skills required during the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Bootcamp is offered each Fall and Spring term.

Vision & Mission

The Department of Physics and Astronomy at Sam Houston State University will be a preferred source of technically equipped employees and scholars, and a vital participant in the global pursuit of fundamental scientific knowledge.

- Faculty will make meaningful professional contributions to their respective research disciplines and actively mentor their students in the practice of scientific investigation.
- Students majoring in physics and pre-engineering, and minoring in astronomy, will be effectively prepared to confront the quantitative, conceptual, and analytical challenges associated with a related career or continuing education.
- All students, including those from other degree programs, will be exposed to the sciences in a manner which nurtures curiosity and develops critical thinking and problem-solving skills that may be usefully projected onto their various professional endeavors and roles in society.

Curriculum

Required Courses For Major

The Bachelor of Science degree requires at least 38 hours in Physics as follows:

Code	Title	Hours
Course Requirements		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3370 & PHYS 4110	Introduction to Theoretical Physics and Advanced Undergraduate Laboratory I	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
PHYS 4366	Introduction to Quantum Mechanics	3
PHYS 4368	Electricity And Magnetism	3
PHYS 4370	Classical Mechanics	3
PHYS 4371	Thermodynamics and Statistical Mechanics	3
PHYS 4395	Undergraduate Research	3
Select 1 or more advanced electives:		3-12
PHYS 3395 & PHYS 3115	Electronics & Circuit Analysis and Electronics and Circuit Analysis Lab	
PHYS 4333 & PHYS 4113	Light And Optics and Light And Optics	
PHYS 4367	Introduction to Solid State Physics	
PHYS 4396	Selected Topics In Physics	

ASTR 3303	Life in the Universe	
ASTR 3383	Cosmic Catastrophes	
Total Hours		**38-47**

All Physics majors meet the requirements for a minor in mathematics.

- Bachelor of Science, Major in Physics/Engineering Dual Degree (p. 1126)
- Bachelor of Science, Major in Physics (p. 1130)
- Bachelor of Science, Major in Physics: Civil Engineering 2+2 (p. 1133)
- Bachelor of Science, Major in Physics: Electrical Engineering 2+2 (p. 1135)
- Bachelor of Science, Major in Physics: Mechanical Engineering 2+2 (p. 1137)
- Minor in Astronomy (p. 1139)
- Minor in Physics (p. 1140)

Employment as a Research or Teaching Assistant

Physics Majors may be paid to participate in faculty-lead research projects (funded by grants from the National Science Foundation or NASA, for example), to help students in introductory physics courses with their laboratory assignments, or to work in the campus tutoring center.

Student Organizations

The Society of Physics is a nationally recognized organization. Students organize science discussions, service projects, construction of demonstrations, graduate school preparation, field trips, tutoring, events hosting potential students, and attendance at professional meetings.

Scholarships

The Physics and Astronomy Department awards scholarships on a competitive basis. Almost all students enrolled in the major receive some assistance, and students with strong GPAs and financial need may be eligible for the prestigious Burroughs or Steele Scholarships, with award amounts from $3,500 to $5,000 per year. Interested applicants should inquire with the department at (936) 294-1601. Other Federal and University scholarships are also available, and additional information may be obtained at the Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships/) or by telephone (936) 294-1672.

Director/Chair: **Joel W Walker**

James Blackman Dent, PHD (jxd087@shsu.edu), *Associate Professor of Physics*, *Department of Physics & Astronomy*, PHD, Texas A&M University; BS, Missouri Univ of Sci and Tech

Hui Fang, PHD (hfang@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Houston-Main; ME, Univ of Houston-Main; MS, Zhejiang University; BS, Zhejiang University

Barry Friedman, PHD (phy_baf@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Illinois-Urbana; MS, Univ of Illinois-Urbana; BA, Rice University

Daniel Taylor Horenstein, MS (dth041@shsu.edu), *Lecturer of Physics and Astronomy*, *Department of Physics & Astronomy*, MS, Georgia State University; BA, Columbia University

Carol Renee James, PHD (phy_crj@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Rice University

Gan Liang, PHD (phy_gnl@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Rutgers University; BS, Beijing University

Taha Ahmad Malik, PHD (tam095@shsu.edu), *Lecturer-Pool of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Texas-San Antonio; MS, Univ of Cambridge; BS, Imperial College, London

Scott T Miller, PHD (stm009@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Maryland-College Park; MS, Univ of Maryland-College Park; BA, Rutgers University; BS, Rutgers University

William Madsen Shepherd, PHD (shepherd@shsu.edu), *Associate Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Calif-Irvine; MS, Northwestern University; MS, Northwestern University; BA, Northwestern University; BA, Northwestern University; BA, Northwestern University

Joel W Walker, PHD (jwalker@shsu.edu), *Professor and Chair of Physics*, *Department of Physics & Astronomy*, PHD, Texas A&M University; PHD, Texas A&M University; BS, Harding University; BS, Harding University

Nelka Chithrani Wijesinghe, PHD (ncw020@shsu.edu), *Lecturer of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BSC, Univ of Peradeniya

Bachelor of Science, Major in Physics/Engineering Dual Degree*

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-physics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Physics/Engineering Dual Degree		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [1,5]		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
COSC 1436	Programming Fundamentals I	4
ENGL 3330	Introduction to Technical Writing	3
ETDD 1361	Engineering Graphics	3
Advanced Elective		3
Major: Foundation		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3370 & PHYS 4110	Introduction to Theoretical Physics and Advanced Undergraduate Laboratory I	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
PHYS 3395 & PHYS 3115	Electronics & Circuit Analysis and Electronics and Circuit Analysis Lab	4
Major: Prescribed Electives [6]		
PHYS Advanced Electives (see list below) [6]		6-8
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3376	Differential Equations	3
MATH 3377	Introduction to Linear Algebra and Matrices	3
Minor: Not Required [7,8]		
Total Hours		**99-101**

1. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement.
2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).
3. Students transferring to UT Tyler should delay taking a credit in Component Area IV at SHSU and instead register for PHIL 2306 (Intro to Ethics) at UT Tyler.
4. Students transferring to UT Tyler should register for ECON 2301 (Macroeconomics) or ECON 2302 (Microeconomics) at SHSU to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
5. Students transferring to UT Tyler should register for COMS 1361 (Public Speaking) at SHSU to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).
6. See the course listing of PHYS Advanced Electives below. 6-7 hours must be selected from the Prescribed Electives in Physics.

[7] A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours will be needed above the degree program's stated total semester credit hours.

[8] The following minor cannot be paired with this degree program: Minor in Physics.

Note: Fourth Year at university with recognized accredited degree program.

Code	Title	Hours
Major: Prescribed Electives [6]		
PHYS Advanced Electives [6]		
PHYS 3360	Statics And Dynamics	3
PHYS 4333 & PHYS 4113	Light And Optics and Light And Optics	4
PHYS 4366	Introduction to Quantum Mechanics	3
PHYS 4368	Electricity And Magnetism	3
PHYS 4370	Classical Mechanics	3
PHYS 4371	Thermodynamics and Statistical Mechanics	3

Notes

While SHSU does not offer a major in Engineering, the Department of Physics and Astronomy does provide the Dual Degree (3+2) Physics plus Engineering program, as well as several options for Pre-Engineering (2+2). Physics and Engineering go together very well, because so much of Engineering is built upon the underlying foundation of Physics. Physicists seek to discover the first principles of Nature, and Engineers seek to use those principles for designing practical solutions to problems.

*In the Dual Degree, or "3+2" program, students earn two degrees, in both Physics and Engineering. This starts with three years at SHSU, completing the Core Curriculum, the Calculus and Physics introductory sequence, and a portion of the upper division Physics Curriculum. Students then transfer to an accredited Engineering program (such as UT Tyler) for the last two years of degree work. Any accredited engineering discipline is acceptable, including (but not limited to) Civil, Mechanical, and Electrical Engineering. After completion of the Engineering Degree, credits are retroactively transferred back to SHSU so that the Physics Degree can be awarded simultaneously.

Alternatively, the "2+2" Pre-Engineering tracks in Civil (p. 1133), Mechanical (p. 1137), and Electrical (p. 1135) Engineering result in a single degree. Students begin these programs in residence at Sam Houston State University, focusing on the Core Curriculum and developing a firm foundation in math and the hard sciences. Subsequently, they transfer to an accredited Engineering Program (such as UT Tyler) after completing two years at SHSU in order to complete their degree in Engineering at the second institution.

Our transfer articulation agreement with the University of Texas at Tyler (UT Tyler) makes matching credits a seamless process and guarantees acceptance for students meeting GPA requirements. This agreement holds for the main campus in Tyler and also for the new Houston Engineering Center branch campus. However, students are also free to continue their study at any institution with an accredited Engineering program.

For students considering Pre-Engineering vs. Engineering Technology, it is very important to understand the similarities and differences between these programs. Engineering tracks include significantly more Math (especially Calculus) than Technology tracks do, leading to very different careers. The Accreditation Board for Engineering and Technology (ABET) says that Engineering programs often focus on theory and conceptual design, while Technology programs usually focus on application and implementation. Engineers often do work involving original research and development, and many continue on to Masters or Doctoral programs in Engineering. Technologists are most likely to work in construction, manufacturing, product design, testing, or technical services and sales. Students interested in Engineering are supervised by the Department of Physics and Astronomy. Students interested in Technology are supervised by the Department of Engineering Technology.

All students interested in Physics or Pre-Engineering enroll in the Physics Bootcamp (PHYS 1401 (http://catalog.shsu.edu/search/?P=PHYS%201401)) during their first semester on campus. This lets interested students see what physics is all about as early as possible, with no prerequisites. It ensures that they have math skills required in the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Bootcamp is typically offered each Fall and Spring term.

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

For more information on the Pre-Engineering programs at SHSU contact:

Department Chair
Physics and Astronomy (http://www.shsu.edu/academics/physics/)
Sam Houston State University
Huntsville, Texas 77341-2267
(936) 294-1601

First Year

Fall	Hours	Spring	Hours
CHEM 1411[1]		4 CHEM 1412[1]	4
ENGL 1301[2]		3 ENGL 1302[2]	3
HSTY 1301[3]		3 HSTY 1302[3]	3
MATH 1420[4]		4 MATH 1430	4
PHYS 1401		4 PHYS 1411	4
	18		**18**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)[5]		3 Component Area IX (p. 91)[7]	3
ETDD 1361		3 COSC 1436	4
MATH 2440		4 ENGL 3330	3
PHYS 1422		4 PHYS 3370 & PHYS 4110	4
POLS 2305[6]		3 POLS 2306[6]	3
	17		**17**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)[8]		3 Component Area V (p. 90)	3
PHYS 3111		1 MATH 3377	3
PHYS 3391		3 PHYS 3115	1
MATH 3376		3 PHYS 3395	3
Advanced Elective		3 PHYS Advanced Electives[9]	3-4
PHYS Advanced Electives[9]	3-4		
	16-17		**13-14**

Fourth Year

Fall	Hours	Spring	Hours
University with Accredited Degree Program		0 University with Accredited Degree Program	0
	0		**0**

Total Hours: 99-101

1. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2. Satisfies Core Curriculum requirement for Component Area I (Communications).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement.
5. Students transferring to UT Tyler should delay taking a credit in Component Area IV at SHSU and instead register for PHIL 2306 (Intro to Ethics) at UT Tyler.
6. Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7. Students transferring to UT Tyler should register for COMS 1361 (Public Speaking) at SHSU to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).
8. Students transferring to UT Tyler should register for ECON 2301 (Macroeconomics) or ECON 2302 (Microeconomics) at SHSU to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
9. See the course listing of PHYS Advanced Electives below. 6-7 hours must be selected from the Prescribed Electives in Physics.

Note: Fourth Year at university with recognized accredited degree program.

Code	Title	Hours
Prescribed Electives [9]		
Advanced PHYS Electives [9]		
PHYS 3360	Statics And Dynamics	3
PHYS 4333 & PHYS 4113	Light And Optics and Light And Optics	4
PHYS 4366	Introduction to Quantum Mechanics	3
PHYS 4368	Electricity And Magnetism	3
PHYS 4370	Classical Mechanics	3
PHYS 4371	Thermodynamics and Statistical Mechanics	3

Notes

While SHSU does not offer a major in Engineering, the Department of Physics and Astronomy does provide the Dual Degree (3+2) Physics plus Engineering program, as well as several options for Pre-Engineering (2+2). Physics and Engineering go together very well, because so much of Engineering is built upon the underlying foundation of Physics. Physicists seek to discover the first principles of Nature, and Engineers seek to use those principles for designing practical solutions to problems.

*In the Dual Degree, or "3+2" program, students earn two degrees, in both Physics and Engineering. This starts with three years at SHSU, completing the Core Curriculum, the Calculus and Physics introductory sequence, and a portion of the upper division Physics Curriculum. Students then transfer to an accredited Engineering program (such as UT Tyler) for the last two years of degree work. Any accredited engineering discipline is acceptable, including (but not limited to) Civil, Mechanical, and Electrical Engineering. After completion of the Engineering Degree, credits are retroactively transferred back to SHSU so that the Physics Degree can be awarded simultaneously.

Alternatively, the "2+2" Pre-Engineering tracks in Civil, Mechanical, and Electrical Engineering result in a single degree. Students begin these programs in residence at Sam Houston State University, focusing on the Core Curriculum and developing a firm foundation in math and the hard sciences. Subsequently, they transfer to an accredited Engineering Program (such as UT Tyler) after completing two years at SHSU in order to complete their degree in Engineering at the second institution.

Our transfer articulation agreement with the University of Texas at Tyler (UT Tyler) makes matching credits a seamless process and guarantees acceptance for students meeting GPA requirements. This agreement holds for the main campus in Tyler and also for the new Houston Engineering Center branch campus. However, students are also free to continue their study at any institution with an accredited Engineering program.

For students considering Pre-Engineering vs. Engineering Technology, it is very important to understand the similarities and differences between these programs. Engineering tracks include significantly more Math (especially Calculus) than Technology tracks do, leading to very different careers. The Accreditation Board for Engineering and Technology (ABET) says that Engineering programs often focus on theory and conceptual design, while Technology programs usually focus on application and implementation. Engineers often do work involving original research and development, and many continue on to Masters or Doctoral programs in Engineering. Technologists are most likely to work in construction, manufacturing, product design, testing, or technical services and sales. Students interested in Engineering are supervised by the Department of Physics and Astronomy. Students interested in Technology are supervised by the Department of Engineering Technology.

All students interested in Physics or Pre-Engineering enroll in the Physics Bootcamp (PHYS 1401 (http://catalog.shsu.edu/search/?P=PHYS%201401)) during their first semester on campus. This lets interested students see what physics is all about as early as possible, with no prerequisites. It ensures that they have math skills required in the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Bootcamp is typically offered each Fall and Spring term.

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

For more information on the Pre-Engineering programs at SHSU contact:

Department Chair
Physics and Astronomy (http://www.shsu.edu/academics/physics/)
Sam Houston State University
Huntsville, Texas 77341-2267
(936) 294-1601

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Physics/Engineering Dual Degree is designed to provide graduates with the following marketable skills:

- Ability to creatively solve real-world problems.
- Sophisticated understanding of applied mathematics.
- Capacity to analyze and interpret complex data.
- Quantitative understanding of mechanical, electrical, and thermal systems.
- Model complex interactions with computer programming and technology.

Bachelor of Science, Major in Physics

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-physics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Physics		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
BIOL 1406	General Biology I	4
or GEOL 1403	Physical Geology	
or PHYS 1404	Solar System Astronomy	
BIOL 1407	General Biology II	4
or GEOL 1404	Historical Geology	
or PHYS 1403	Stars & Galaxies	
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
COSC 1436	Programming Fundamentals I	4
Advanced Electives		7
MATH (Advanced) or Science (Advanced)		6
Major: Foundation		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
PHYS 3370 & PHYS 4110	Introduction to Theoretical Physics and Advanced Undergraduate Laboratory I	4
PHYS 4366	Introduction to Quantum Mechanics	3
PHYS 4368	Electricity And Magnetism	3
PHYS 4370	Classical Mechanics	3
PHYS 4371	Thermodynamics and Statistical Mechanics	3
PHYS 4395	Undergraduate Research	3
Major: Prescribed Electives		

PHYS Advanced Electives		3
Electives: General		
General Electives		1
Minor: Required [3]		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3376	Differential Equations	3
MATH 3377	Introduction to Linear Algebra and Matrices	3
Total Hours		**120**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Minor requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science).

3 The following minor cannot be paired with this degree program: Minor in Physics.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

All students interested in Physics or Pre-Engineering should enroll in the Physics Boot Camp (PHYS 1401) during their first semester on campus. This lets interested students see what Physics is all about as early as possible, with no prerequisites. It ensures that they have math skills required in the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Boot Camp is typically offered each Fall and Spring term.

Students with a Major in Physics may wish to consider adding the Minor in Astronomy (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/minor-astronomy/).

Alternatively, students may enroll in the Dual Degree (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-engineering-dual-degree/) (3-2) Physics plus Engineering program, or the Pre-Engineering (2-2) program, with a concentration in Mechanical (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-mechanical-engineering/), Electrical (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-electrical-engineering/), or Civil (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-civil-engineering/) Engineering.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-physics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

First Year

Fall	Hours	Spring	Hours
CHEM 1411[1]	4	CHEM 1412[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
General Elective	1	MATH 1430	4
MATH 1420[3]	4	PHYS 1411	4
PHYS 1401	4		
	16		**15**

Second Year

Fall	Hours	Spring	Hours
Component Area IV (p. 89)	3	COSC 1436	4
HSTY 1301[4]	3	HSTY 1302[4]	3
MATH 2440	4	PHYS 3370 & PHYS 4110	4

PHYS 1422	4	POLS 2306[5]	3
POLS 2305[5]	3		
	17		**14**

Third Year

Fall	Hours	Spring	Hours
Component Area VIII (p. 90)	3	Component Area V (p. 90)	3
Component Area IX (p. 91)	3	BIOL 1407, GEOL 1404, or PHYS 1403	4
BIOL 1406, GEOL 1403, or PHYS 1404	4	MATH 3377	3
MATH 3376	3	PHYS 4370	3
PHYS 3391 & PHYS 3111	4		
	17		**13**

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives	3	Advanced Electives	4
Math or Science Advanced	3	Math or Science Advanced	3
PHYS 4368	3	PHYS Advanced Electives	3
PHYS 4371	3	PHYS 4366	3
PHYS 4395	3		
	15		**13**

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Minor requirement.
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science).

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

The following minor cannot be paired with this degree program: Minor in Physics.

All students interested in Physics or Pre-Engineering should enroll in the Physics Boot Camp (PHYS 1401) during their first semester on campus. This lets interested students see what Physics is all about as early as possible, with no prerequisites. It ensures that they have math skills required in the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Boot Camp is typically offered each Fall and Spring term.

Students with a Major in Physics may wish to consider adding the Minor in Astronomy (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/minor-astronomy/).

Alternatively, students may enroll in the Dual Degree (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-engineering-dual-degree/) (3-2) Physics plus Engineering program, or the Pre-Engineering (2-2) program, with a concentration in Mechanical (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-mechanical-engineering/), Electrical (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-electrical-engineering/), or Civil (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-civil-engineering/) Engineering.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Physics is designed to provide graduates with the following marketable skills:

- Ability to creatively solve real-world problems.
- Sophisticated understanding of applied mathematics.
- Capacity to analyze and interpret complex data.
- Quantitative understanding of mechanical, electrical, and thermal systems.
- Model complex interactions with computer programming and technology.

Bachelor of Science, Major in Physics, Civil Engineering 2+2

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-physics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Physics, Civil Engineering 2+2		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [5]		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [2]	4
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1401	Physics Boot Camp [2]	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Major: Foundation		
MATH 3376	Differential Equations	3
PHYS 3115	Electronics and Circuit Analysis Lab	1
PHYS 3360	Statics And Dynamics	3
PHYS 3395	Electronics & Circuit Analysis	3
Major: Concentration		
ETDD 1361	Engineering Graphics	3
MATH 2440	Calculus III	4
Total Hours		**71**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX as well as the major.

2 Credits in PHYS 1401 and CHEM 1411 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major.

3 Students transferring to UT Tyler should delay taking a credit in Component Area IV at SHSU and instead register for PHIL 2306 (Intro to Ethics) at UT Tyler.

4 Students transferring to UT Tyler should register for ECON 2301 (Macroeconomics) or ECON 2302 (Microeconomics) at SHSU to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

[5] Students transferring to UT Tyler should register for COMS 1361 (Public Speaking) at SHSU to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).

While SHSU does not offer a major in Engineering, the Department of Physics and Astronomy does provide several options for Pre-Engineering. Physics and Engineering go together very well, because so much of Engineering is built upon the underlying foundation of Physics. Physicists seek to discover the first principles of Nature, and Engineers seek to use those principles for designing practical solutions to problems.

Students on the Civil Pre-Engineering plan complete 71 credit hours in residence at Sam Houston State University, focusing on the Core Curriculum and developing a firm foundation in math and the hard sciences. They then transfer to a partner institution to complete the remaining requirements for award of a degree in Civil Engineering.

Our transfer articulation agreement with the University of Texas at Tyler (UT Tyler) makes matching credits a seamless process and guarantees acceptance for students meeting GPA requirements. This agreement holds for the main campus in Tyler and also for the new Houston Engineering Center branch campus. However, students are also free to continue their study at any institution with an accredited Engineering program.

For students considering Pre-Engineering vs. Engineering Technology, it is very important to understand the similarities and differences between these programs. Engineering tracks include significantly more Math (especially Calculus) than Technology tracks do, leading to very different careers. The Accreditation Board for Engineering and Technology (ABET) says that Engineering programs often focus on theory and conceptual design, while Technology programs usually focus on application and implementation. Engineers often do work involving original research and development, and many continue on to Masters or Doctoral programs in Engineering. Technologists are most likely to work in construction, manufacturing, product design, testing, or technical services and sales. Students interested in Engineering are supervised by the Department of Physics and Astronomy. Students interested in Technology are supervised by the Department of Engineering Technology.

Students may also wish to consider the Physics and Engineering Dual Degree (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-engineering-dual-degree/), or "3+2" program, where students earn Bachelors Degrees in both Physics and Engineering. This starts with three years at SHSU, completing the Core Curriculum, the Calculus and Physics introductory sequence, and a portion of the upper division Physics Curriculum. Students then transfer to an accredited Engineering program (such as UT Tyler) for the last two years of degree work. After completion of the Engineering Degree, credits are retroactively transferred back to SHSU so that the Physics Degree can be awarded simultaneously.

All students interested in Physics or Pre-Engineering enroll in the Physics Bootcamp (PHYS 1401) during their first semester on campus. This ensures that students master the math skills required during the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Bootcamp is offered each Fall and Spring term.

Bachelor of Science, Major in Physics, Electrical Engineering 2+2

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-physics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Physics, Electrical Engineering 2+2		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [1,5]		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [2]	4
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1401	Physics Boot Camp [2]	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Major: Foundation		
MATH 3376	Differential Equations	3
PHYS 3115	Electronics and Circuit Analysis Lab	1
PHYS 3395	Electronics & Circuit Analysis	3
Major: Concentration		
COSC 1436	Programming Fundamentals I [6]	4
ETDD 1361	Engineering Graphics	3
MATH 2440	Calculus III	4
Total Hours		**72**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX (Component Area IX) as well as the major.

2 Credits in PHYS 1401 and CHEM 1411 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major.

3 Students transferring to UT Tyler should delay taking credit in Component Area IV (Language, Philosophy, and Culture) at SHSU and instead register for PHIL 2306 (Intro to Ethics) at UT Tyler.

4 Students transferring to UT Tyler should register for ECON 2301 (Macroeconomics) or ECON 2302 (Microeconomics) at ECON 2302 (Microeconomics) at SHSU to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

5 Students transferring to UT Tyler should register for COMS 1361 (Public Speaking) at SHSU to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).

6 Students transferring to UT Tyler should enroll in in the c++ (rather than Java) section of this course.

While SHSU does not offer a major in Engineering, the Department of Physics and Astronomy does provide several options for Pre-Engineering. Physics and Engineering go together very well, because so much of Engineering is built upon the underlying foundation of Physics. Physicists seek to discover the first principles of Nature, and Engineers seek to use those principles for designing practical solutions to problems.

Students on the Electrical Pre-Engineering plan complete 72 credit hours in residence at Sam Houston State University, focusing on the Core Curriculum and developing a firm foundation in math and the hard sciences. They then transfer to a partner institution to complete remaining requirements for award of a degree in Electrical Engineering.

Our transfer articulation agreement with the University of Texas at Tyler (UT Tyler) makes matching credits a seamless process and guarantees acceptance for students meeting GPA requirements. This agreement holds for the main campus in Tyler and also for the new

Houston Engineering Center branch campus. However, students are also free to continue their study at any institution with an accredited Engineering program.

For students considering Pre-Engineering vs. Engineering Technology, it is very important to understand the similarities and differences between these programs. Engineering tracks include significantly more Math (especially Calculus) than Technology tracks do, leading to very different careers. The Accreditation Board for Engineering and Technology (ABET) says that Engineering programs often focus on theory and conceptual design, while Technology programs usually focus on application and implementation. Engineers often do work involving original research and development, and many continue on to Masters or Doctoral programs in Engineering. Technologists are most likely to work in construction, manufacturing, product design, testing, or technical services and sales. Students interested in Engineering are supervised by the Department of Physics and Astronomy. Students interested in Technology are supervised by the Department of Engineering Technology.

Students may also wish to consider the Physics and Engineering Dual Degree (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-engineering-dual-degree/), or "3+2" program, where students earn Bachelors Degrees in both Physics and Engineering. This starts with three years at SHSU, completing the Core Curriculum, the Calculus and Physics introductory sequence, and a portion of the upper division Physics Curriculum. Students then transfer to an accredited Engineering program (such as UT Tyler) for the last two years of degree work. After completion of the Engineering Degree, credits are retroactively transferred back to SHSU so that the Physics Degree can be awarded simultaneously.

All students interested in Physics or Pre-Engineering enroll in the Physics Bootcamp (PHYS 1401) during their first semester on campus. This ensures that students master the math skills required during the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Bootcamp is offered each Fall and Spring term.

Bachelor of Science, Major in Physics, Mechanical Engineering 2+2

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/bachelor-of-science-in-physics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Physics, Mechanical Engineering 2+2		
Core Curriculum (p. 88)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture) [3]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [4]		3
Component Area IX (Component Area Option) [1,5]		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [2]	4
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1401	Physics Boot Camp [2]	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Major: Foundation		
MATH 3376	Differential Equations	3
PHYS 3115	Electronics and Circuit Analysis Lab	1
PHYS 3360	Statics And Dynamics	3
PHYS 3395	Electronics & Circuit Analysis	3
Major: Concentration		
COSC 1436	Programming Fundamentals I [6]	4
ETDD 1361	Engineering Graphics	3
MATH 2440	Calculus III	4
Total Hours		**75**

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX (Component Area IX) as well as the major.

2 Credits in PHYS 1401 and CHEM 1411 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major.

3 Students transferring to UT Tyler should delay taking a credit in Component Area IV at SHSU and instead register for PHIL 2306 (Intro to Ethics) at UT Tyler.

4 Students transferring to UT Tyler should register for ECON 2301 (Macroeconomics) or ECON 2302 (Microeconomics) at SHSU to fulfill the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

5 Students transferring to UT Tyler should register for COMS 1361 (Public Speaking) at SHSU to fulfill the Core Curriculum requirement for Component Area IX (Component Area Option).

6 Students transferring to UT Tyler should enroll in in the c++ (rather than Java) section of this course.

While SHSU does not offer a major in Engineering, the Department of Physics and Astronomy does provide several options for Pre-Engineering. Physics and Engineering go together very well, because so much of Engineering is built upon the underlying foundation of Physics. Physicists seek to discover the first principles of Nature, and Engineers seek to use those principles for designing practical solutions to problems.

Students on the Mechanical Pre-Engineering plan complete 75 credit hours in residence at Sam Houston State University, focusing on the Core Curriculum and developing a firm foundation in math and the hard sciences. They then transfer to a partner institution to complete remaining requirements for award of a degree in Mechanical Engineering.

Our transfer articulation agreement with the University of Texas at Tyler (UT Tyler) makes matching credits a seamless process and guarantees acceptance for students meeting GPA requirements. This agreement holds for the main campus in Tyler and also for the new

Houston Engineering Center branch campus. However, students are also free to continue their study at any institution with an accredited Engineering program.

For students considering Pre-Engineering vs. Engineering Technology, it is very important to understand the similarities and differences between these programs. Engineering tracks include significantly more Math (especially Calculus) than Technology tracks do, leading to very different careers. The Accreditation Board for Engineering and Technology (ABET) says that Engineering programs often focus on theory and conceptual design, while Technology programs usually focus on application and implementation. Engineers often do work involving original research and development, and many continue on to Masters or Doctoral programs in Engineering. Technologists are most likely to work in construction, manufacturing, product design, testing, or technical services and sales. Students interested in Engineering are supervised by the Department of Physics and Astronomy. Students interested in Technology are supervised by the Department of Engineering Technology.

Students may also wish to consider the Physics and Engineering Dual Degree (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/physics-and-astronomy/bs-physics-engineering-dual-degree/), or "3+2" program, where students earn Bachelors Degrees in both Physics and Engineering. This starts with three years at SHSU, completing the Core Curriculum, the Calculus and Physics introductory sequence, and a portion of the upper division Physics Curriculum. Students then transfer to an accredited Engineering program (such as UT Tyler) for the last two years of degree work. After completion of the Engineering Degree, credits are retroactively transferred back to SHSU so that the Physics Degree can be awarded simultaneously.

All students interested in Physics or Pre-Engineering enroll in the Physics Bootcamp (PHYS 1401) during their first semester on campus. This ensures that students master the math skills required during the next two years and helps them understand what those skills are good for in Physics and Engineering. It develops confidence, teamwork, camaraderie, and a sense of belonging in the department. A weekly group-based problem-solving practice session is integrated. The Bootcamp is offered each Fall and Spring term.

Minor in Astronomy

The Astronomy Minor pairs perfectly with the Physics Major for students continuing to a Master's or PhD program in Astronomy. It likewise goes well with Pre-Engineering or Engineering Technology, for students targeting employment in the burgeoning Texas aerospace sector, or with an Education Major for future science teachers. The Astronomy Minor is also accessible to all who simply love exploring the majesty of our universe, with no advanced physics or mathematics requirements.

Students in the Astronomy Minor will have plenty of access to the new Dominey Observatory, which is located just north of campus. This world-class facility is home to an amazing 27" telescope, and is fully wheelchair accessible. In addition, there are several smaller telescopes for individual stargazing. Also, our indoor planetarium provides views of the sky from any location in the solar system at any date in history, along with a large collection of pre-recorded astronomy and science educational presentations.

Code	Title	Hours
Minor in Astronomy		
Required Courses		
PHYS 1403	Stars & Galaxies	4
PHYS 1404	Solar System Astronomy	4
ASTR 3303	Life in the Universe	3
ASTR 3383	Cosmic Catastrophes	3
Prescribed Electives		
Select one to two courses from the following:		4-6
PHYS 3397 & PHYS 3117	Astronomy and Astronomy Laboratory	
PHYS 4333 & PHYS 4113	Light And Optics and Light And Optics	
PHYS 4395	Undergraduate Research	
PHYS 4396	Selected Topics In Physics	
PHYS 4398	Senior Thesis	
Total Hours		**18-20**

Minor in Physics

The Minor in Physics requires a minimum of 22 hours of coursework and shall include:

Code	Title	Hours
Minor in Physics		
Required Courses		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
Select two advanced PHYS electives, typically from:		6-7
PHYS 3370 & PHYS 4110	Introduction to Theoretical Physics and Advanced Undergraduate Laboratory I	
PHYS 4366	Introduction to Quantum Mechanics	
PHYS 4368	Electricity And Magnetism	
PHYS 4370	Classical Mechanics	
PHYS 4371	Thermodynamics and Statistical Mechanics	
Total Hours		**22-23**

First Year Experience

Director: Kay Angrove (kangrove@shsu.edu) (936) 294-3422

Website: First Year Experience (http://www.shsu.edu/fye/)

Sam Houston State University has developed a comprehensive, coordinated approach toward the First-Year Experience including first-year seminar courses, learning communities, peer mentor support, and first-year course schedule building assistance for an optimal experience. New Student Convocation, an SHSU Common Reader program, and a comprehensive offering of leadership opportunities and support strategies for first-year students at SHSU round out the SHSU First-Year Experience.

UNIV 1101 Learning communities (http://www.shsu.edu/dept/fye/FLC/) provide students the opportunity to take a major-themed or special interest themed one-hour UNIV 1101: Learning Frameworks class section with other first-year students who have similar interests or classes. The learning communities are designed to foster the intellectual and social development of students through increased interaction with fellow students, faculty, and staff. SHSU learning communities are available in fall semesters. There are planned activities designed to enhance connections to students college major, to increase academic success, and to provide a positive social atmosphere outside of the classroom. Each UNIV 1101 First Year Learning Community includes a peer mentor for support from an experienced successful college student in addition to an instructor dedicated to first year student success .

For further information call (936) 294-3422, e-mail (fye@shsu.edu) or visit First Year Experience. (http://www.shsu.edu/dept/fye/#wwwshsuedu/f)

Honors College

Dean: Kimberly Bell, Ph.D.
Associate Dean: Patrick Lewis, Ph.D.
Associate Dean: Tracy Bilsing, Ph.D.
Assistant Dean: Justin Williams, Ph.D.
Associate Director: Kendall Gragert, M.A.
Administrative Coordinator: Connie Rodriguez
Specialist IV: Ashlee Fuller

Information:
Academic Building IV, corner of Avenue I and Bowers Boulevard
Box 2479
1921 Avenue J
Suite 202
Huntsville, TX 77341-2479
Telephone: (936) 294-1477
Fax: (936) 294-1090

Website: http://honors.shsu.edu (http://honors.shsu.edu/)

Email: Honors College (honors@shsu.edu)

The Elliott T. Bowers Honors College exists for the benefit of highly motivated and academically talented undergraduate students at Sam Houston State University. The Honors College provides these achievement-oriented students with the following benefits and opportunities:

- financial support, including scholarships and research funding
- interaction with other highly motivated students
- special course offerings, including honors seminars
- limited-enrollment classes
- close contact with engaged and highly productive faculty
- early registration
- supervised undergraduate research
- community service and civic engagement
- access to honors-only facilities (including honors residence halls on campus, honors lounge, honors library study room, and honors computer lab)

- a variety of cultural and social outings and events—on campus and off—throughout the academic year
- involvement in the annual Undergraduate Research Symposium and TEDx Conference

Honors students earn honors credit in a variety of specially designated classes or contracted courses and work toward the distinction of graduating "With Honors" or "With Highest Honors." To qualify for graduation "With Honors," students must be members in good standing in the Honors College and have completed 24 hours of honors credit, including participation in two interdisciplinary honors seminars. To qualify for graduation "With Highest Honors," students must, in addition, complete the six-hour honors thesis in an approved discipline under the direction of a faculty member of their choice. Those who graduate "With Honors" or "With Highest Honors" receive an honors cord, stole, and medallion and are announced as honors graduates at commencement. "With Honors" or "With Highest Honors" also shows on their transcripts.

To be considered for admission to the Honors College, either when first entering SHSU or as a continuing SHSU student, students submit a special application to the Honors College Office.

Incoming freshmen are eligible for consideration if they have achieved one of the following:

- a composite SAT I score (Critical Reading + Math) of 1270 or above
- a composite ACT score of 27 or above
- graduated in the top 10 percent of their high school class
- earned a 3.5 unweighted high school G.P.A.

Transfer and continuing SHSU students are eligible for consideration if they have achieved a college cumulative GPA of 3.25 or better and have at least four long semesters remaining before graduation.

Admission is competitive. Selections are determined by a comprehensive review of each completed application by the honors faculty admissions committee.

Each year, incoming first-time freshmen who have applied and been accepted to the Honors College by January 1 and have earned a composite SAT score of 1320 or composite ACT score of 29 or above are eligible for one of 23 Honors Scholarships (worth up to $40,000 over four years). Moreover, students who have earned a composite SAT score of 1350 or composite ACT score of 30 or higher will be considered for one of two Bowers Scholarships (worth up to $80,000 over four years). Scholarships are highly competitive, and eligible students will be reviewed by a special honors applications committee and may be invited for interviews. Awards are for fall semesters only.

Honors Seminars are designed to provide unique, broadly integrative, interdisciplinary educational experiences to all Elliott T. Bowers honors students. These courses are highly interactive between professors and students. These and other educational initiatives provide honors students with a rich and challenging interdisciplinary learning environment.

To remain in good standing once accepted to the Honors College, students must maintain a 3.25 grade point average, make steady progress toward completing honors requirements, be honors advised each semester, and attend a minimum of three honors engagement events per year.

McNair Scholars Program

The Ronald E. McNair Postbaccalaureate Achievement Program is designed to provide talented low-income/ first generation and ethnic minority undergraduate students with effective preparation for doctoral study. The McNair Program at Sam Houston State University encourages graduate studies by providing opportunities for undergraduates to define their goals, engage in research, and develop the skills and faculty mentor relationships that are critical to success at the doctoral level.

Dr. Lydia Fox (lcruzfox@shsu.edu) - Director
(936) 294-3264

Ruby Rodriguez - Coordinator
(936) 294-3279

McNair Scholars Program
1908 Avenue J
Farrington Building, Room 111
Huntsville, TX 77340-2359
Phone: (936) 294-3279

Website: (https://www.shsu.edu/mcnair-scholars-program/)https://www.shsu.edu/mcnair-scholars-program/

Department of Military Science

Chair: Lieutenant Colonel Roger Hafford

The Department of Military Science at Sam Houston State University is administratively aligned with the Associate Provost and Vice President for Academic Affairs.

Course of Instruction

Army Reserve Officer's Training Corps (ROTC) classes are offered on an elective basis. Students may take the lower-division courses and summer Army training such as Airborne School without obligation for military service. Students who desire to pursue upper-division courses may complete the ROTC program and compete for an officer commission on Active Duty, in the U. S. Army Reserve, or Army National Guard. A minor in military science is offered.

Army ROTC Scholarships

The United States Army offers two, three, and four-year competitive scholarships annually. The four year scholarship is awarded by a National Board and can be accessed at http://www.goarmy.com/rotc/scholarships.html. Two and three year scholarships are vetted and awarded by the Department of Military Science based on annual availability and the strength of the applicant. Competitive candidates will have a minimum 2.5 GPA, strong physical fitness attributes, and demonstrated leadership capability. These scholarships pay full tuition and fees and provide $1,200.00 for books and supplies. Scholarship and non-scholarship contract students receive a subsistence allowance of $420 for up to ten months per year. Several other private scholarships are awarded annually to students enrolled in Military Science courses. All students are encouraged to contact the Department of Military Science for an application or to learn more.

Tuition Rates

In-state rates for fees and tuition are given to out-of-state students that have agreed to accept a commission in the U.S. Army, Army Reserve, or Army National Guard.

Academic Substitution

Limited course substitution is available with permission of both the PMS and the department chair concerned.

Academic Minor

Students may seek a minor in Military Science with the approval of the PMS and the approval of the dean of the college in which the student pursues his/her major. Requirements are eighteen hours of advanced Military Science, six hours from the Professional Military Education (PME) component courses, 3 hours approved Military History course, and 3 hours of English Composition II.

- No-Obligation Program (p. 1144)
- Army Commissioning Program (p. 1143)

Army Commissioning Program

1. **Army Commissioning Program *(Advanced Course)*.** This program is divided into two-year and four-year commissioning plans.
    a. ***Two-Year Compression Commissioning Plan.***
        i. **Upperclassmen and Graduate Students.** Students who have already completed a portion of their degree plan can pursue a commission as an officer in the U.S. Army, Army Reserve, or Army National Guard. This program is offered to students who have no prior military or military-equivalent training and have approximately two years remaining to complete their undergraduate or graduate degree plan. To qualify, students first attend a four-week summer Basic Camp at Fort Knox, Kentucky. The Basic Camp provides new Cadets with foundational leadership skills, training in individual and collective tasks, and critical thinking and problem solving skills. Upon completion of training, the new Cadet understands the officer's role in leading change and the fundamentals of the Army as a profession. The government pays all travel expenses, furnishes room, board, and clothing, and pays students a per diem of approximately $900.00. Moreover, students are eligible to compete for two-year scholarships and the university awards four credit hours for this training. After successfully completing the Basic Camp students may enroll in upper-division Military Science courses and receive a monthly allowance of $420. Students must maintain a 2.5 GPA, pass the Army Physical Fitness Test, meet height and weight standards, and maintain high moral and ethical standards to remain enrolled and earn their commission as an officer.
        ii. **Veterans.** Student Veterans and National Guard or Army Reserve members who have completed some military training and service may start the ROTC program at the upper-division level, when academically prepared (typically 60 or more credit hours and capable of completing remaining academic work in two academic years). Their applications to start the program will be approved by the Military Science Department Chair. National Guard and Army Reserve members may remain in the Guard or Reserve under the Simultaneous Membership Program (SMP). This course of action is strongly encouraged. Contracted juniors receive a monthly allowance of $420. These stipends are in addition to any pay and entitlements provided by the Guard or Reserve.
        iii. **Professional Military Education (PME) Component.** The United States Army mandates that Army ROTC students pursuing a commission as an Army officer complete certain Professional Military Education (PME) requirements in order to be commissioned. The PME consists of a baccalaureate degree and the completion of at least one undergraduate course from each of the following designated fields of study: written communications and military history. Students desiring to pursue a minor in Military Science, and/or a course of instruction which

will satisfy the requirements for a commission in the U.S. Army, are required to seek dual advising and approval from the university and the Military Science Department Chair in order to ensure that these special requirements are satisfied.

iv. **Cadet Professional Development Training (CPDT).** During the compression commissioning plan, Military Science Level 3 students have the opportunity to conduct additional training beyond their attendance at Advance Camp. They can choose to attend Cadet Troop Leader Training (CTLT) or apply for internships. Additional opportunities include serving as a leader during a Basic Camp rotation or attending Army schools such as Airborne, Air Assault, Northern Warfare, or Scuba school. All of these opportunities require students to compete against their peers for a position and provide important skills and competencies required to earn their desired component and branch.

b. ***Four-Year Progression Commissioning Plan.***

i. **Lower-Division Courses (Basic Course).** Under the four-year commissioning plan, lower-division military science courses (MLSC 1101, 1211, 1212, 2101, 2211, 2212) are required prior to taking upper-division military science courses. These course must also be completed to commission as a military officer. Nevertheless, these courses remain open to all students without obligation for future military service. These basic courses provide instruction in leadership, communication skills, critical thinking, time management, and provide an introduction to the U.S. Army profession. The basic course highlights the career options, values/ethics, training, and benefits provided by the U.S. Army. Scholarship or contracted students will receive a monthly allowance of $420. Students must maintain a 2.5 GPA, pass the Army Physical Fitness Test, maintain height and weight standards, and maintain high moral and ethical standards to remain enrolled and earn their commission as an officer.

ii. **Upper-Division Courses (Advance Course).** The Upper-Division (3000 and 4000 level) courses offered by the department are normally taken during the junior and senior years or while pursuing graduate work. These courses prepare students for their future as commissioned officers in the United States Army. Enrollment in upper-division courses requires the student to commit (contract) to commissioning after graduation and serving in the U.S. Army Reserve, the Army National Guard, or the Active Army. Students enrolled in upper-division courses receive a monthly subsistence allowance of $420. Students are required to attend the Advanced Course at Fort Knox, Kentucky during the summer between their junior and senior years. At the Advance course, students in the upper division participate in physically and mentally challenging instruction and training. During this training period, the student demonstrates their proficiency through leadership scenarios and through the completion of hands-on tasks. The government pays all travel expenses, furnishes room, board, and clothing, and pays students a per diem of approximately $900.00. The university awards students four credit hours for the training. Lower-division military science courses are required prior to enrolling in upper-division courses if pursuing the four-year commissioning plan.

iii. **Professional Military Education (PME) Component.** The United States Army mandates that Army ROTC students pursuing a commission as an Army officer complete certain Professional Military Education (PME) requirements in order to be commissioned. The PME consists of a baccalaureate degree and the completion of at least one undergraduate course from each of the following designated fields of study: written communications and , military history. Students desiring to pursue a minor in Military Science, and/or a course of instruction which will satisfy the requirements for a commission in the U.S. Army, are required to seek dual advising and approval from the university and the Military Science Department Chair in order to ensure that these special requirements are satisfied.

iv. **Cadet Professional Development Training (CPDT).** During the four year commissioning plan, Military Science Level students have increased time and opportunites to conduct additional training beyond their attendance at Advance Camp. They can choose to attend Cadet Troop Leader Training (CTLT), apply for Cultural Understanding and Learning Programs (CULP) or apply for internships. Additional opportunities include serving as a leader during a Basic Camp rotation, acting as Opposing Forces (OPFOR) for an Advanced Camp rotation, or attending Army schools such as Airborne, Air Assault, Northern Warfare, or Scuba school. All of these opportunities require students to compete against their peers for a position and provide important skills and competencies required to earn their desired component and branch.

No-Obligation Program

1. **No-Obligation Program (Basic Course).** The lower-division (1000 and 2000 level) courses offered by the department are open to all students without obligation for present or future military service. These courses provide instruction in basic leadership and endurance skills that are applicable to any future profession. These courses are generally taken during the freshman and sophomore years. Students attending the no-obligation course may also participate (at no obligation) in summer Cadet Professional Development Training (CPDT) to include Basic Camp, Airborne, Air Assault, Northern Warfare, Mountain Warfare training, and the Advanced Camp Support Mission. Preference for CPDT goes to contracted Cadets, but non-contracted students will be considered on a case-by-case basis.

a. **BASIC CAMP.** Basic Camp is a four week developmental training camp conducted at Fort Knox, Kentucky. The camp provides hands-on leadership skills through immersive training scenarios. Specific skills developed include: radio training, weapons proficiency, tactical leadership, and basic Army standards and etiquette. The camp produces a Cadet grounded in foundational leadership doctrine and skills. Upon completion of training, the Cadet demonstrates proficiency in individual and collective tasks at the team and squad level and applies them in a physically demanding, complex, tactical environment. Cadets also comprehend critical thinking and problem solving skills using Troop Leading Procedures. Finally, Cadets learn the value of diversity and understand the officer's role in leading change. This camp teaches the fundamentals of the Army as a profession. The Cadet receives approximately $900 per diem during training and all travel costs are covered by the government.

b. **AIRBORNE TRAINING.** This physically demanding school is scheduled during the summer over a three-week period at Fort Benning, Georgia. Students who successfully complete this school are qualified as Army parachutists and are awarded Army Paratrooper Wings. This training is offered to any student enrolled in Military Science, although available seats are limited.

c. **AIR ASSAULT TRAINING.** This physically demanding school scheduled during the summer consists of ten days of training which includes a twelve mile road march, an obstacle course, classes in aircraft safety and familiarization, rappelling, rigging, and sling-loading. Air Assault school is offered at various Army posts throughout the United States. This training is offered to any student enrolled in Military Science, although available seats are limited.
d. **NORTHERN WARFARE SCHOOL.** This is a two-week course conducted at Fort Greeley, Alaska. It consists of physically and mentally demanding training emphasizing movement in mountainous terrain, on glaciers and in in-land waterways. This training is offered to any student enrolled in Military Science, although available seats are limited.
e. **MOUNTAIN WARFARE SCHOOL.** This is a two-week course conducted at Jericho, Vermont. This training is both physically and mentally challenging with emphasis placed on movement in mountainous terrain. This training is offered to any student enrolled in Military Science, although available seats are limited.
f. **ADVANCED CAMP SUPPORT MISSION.** Cadets in the Basic Course track have the opportunity to support Advance Camp by serving as Opposing Forces (OPFOR) in the summer of their first or second year. They learn about the Advance Camp structure and gain a tactical training advantage over their peers during the course of this five week long support to the Advance Camp mission. Cadets earn approximately $1,000 per diem for this summer training mission.

Course Descriptions

Accounting (ACCT)

ACCT 2301. Principles of Financial Accounting. 3 Hours. [TCCN: ACCT 2301]
Students are introduced to the fundamental concepts of financial accounting prescribed by U.S. generally accepted accounting principles (GAAP) and applied to transactions and events that affect business organizations. Topics may include the accounting cycle; the preparation of financial statements; the measurement and reporting of business income; and the valuation and presentation of assets; liabilities; and stockholders' equity. Emphasis is placed on the relevance of the business and economic information generated by the accounting process and how it is used in personal and business decision making. Students are exposed to International Financial Reporting Standards (IFRS). Students who plan to take ACCT 3313 must earn a minimum grade of C in ACCT 2301.
Prerequisite: 18 semester hours of college credit.

ACCT 2302. Principles of Managerial Accounting. 3 Hours. [TCCN: ACCT 2302]
Students are introduced to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision-making. Topics may include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation. Students who plan to take ACCT 3313 must earn a minimum grade of C in ACCT 2302.
Prerequisite: ACCT 2301.

ACCT 3304. Managerial Accounting. 3 Hours.
Students are introduced to further developed financial accounting concepts, interpretation, and the study of management uses of accounting data. This course includes a study of basic accounting concepts, interpretation of accounting reports, cost control and analysis, and methods of measuring performance. Non-Majors and Non-Minors only.
Prerequisite: ACCT 2302.

ACCT 3313. Intermediate Accounting I. 3 Hours.
Students engage in a thorough study of the accounting principles underlying the preparation of financial statements. This course is concerned primarily with the recording process, formats of the financial statements, the measurement and reporting of current and non-current assets and related revenues and expenses, and the measurement and reporting of current liabilities. The course emphasizes the environment of accounting and basic accounting theory.
Prerequisite: ACCT 2301 and ACCT 2302 with a minimum grade of C in each.

ACCT 3314. Intermediate Accounting II. 3 Hours.
A continuation of ACCT 3313, students extend the study of the preparation of financial statements to the measurement and reporting of long-term liabilities, stockholders' equity, and investments. Additional topics may include time value of money concepts, cash flow statements, accounting for leases, income taxes, and revenue recognition.
Prerequisite: ACCT 3313 with a minimum grade of C.

ACCT 3324. Accounting Information Systems. 3 Hours.
Students study principles of accounting systems design integrated into both manual and computerized systems with an emphasis on the accounting cycle, internal control structures, computerized transaction processing systems, relational databases, and integrated enterprise resource planning systems in accounting.
Prerequisite: ACCT 2301 and ACCT 2302.

ACCT 3340. International Accounting. 3 Hours.
Students are introduced to the accounting aspects of international business. Topics covered from an international perspective may include the interaction between accounting and its environment, differing national accounting practices, international harmonization of accounting and reporting, foreign currency translation and exchange rate issues, problems of inflation, transfer pricing and taxation, managerial accounting and analysis of foreign financial statements.
Prerequisite: ACCT 2302.

ACCT 3347. Cost Accounting. 3 Hours.
Students study cost accounting principles and techniques of assembling data for product costing and for managerial use in planning and control and decision making. Cost terminology, cost behavior, job order and process costing, budgeting, cost-volume-profit analysis, standard costs, and activity based costing are topics covered.
Prerequisite: ACCT 2301 and ACCT 2302 with a minimum grade of C in each.

ACCT 3353. Federal Taxation Concepts. 3 Hours.
Students study the basic tax concepts and income taxation of individuals with emphasis placed on the determination of income and statutory deductions to arrive at the net taxable income. Consideration is given to tax planning as well as decision-making and tax return problems.
Prerequisite: ACCT 2301 and ACCT 2302 with a minimum grade of C in each.

ACCT 4080. Independent Study. 1-3 Hours.
Individual study as arranged with members of the faculty. This course may be repeated and may be taken for Academic Distinction Program Credit. Variable Credit (1-3). Course Equivalents: ACCT 4380
Prerequisite: Consent of Department Chair.

ACCT 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Accounting topics and concepts in a course setting. Variable credit (1-3). Course Equivalents: ACCT 4385 .

ACCT 4317. Advanced Financial Accounting. 3 Hours.
Students examine financial accounting standards and procedures used in accounting and reporting for business combinations, intercorporate investments, and consolidated financial statements.
Prerequisite: ACCT 3314 with a minimum grade of C.

ACCT 4325. Emerging Technology in Accounting. 3 Hours.
Students examine emerging and recently developed technologies for the impact on the quantity and quality of accounting data. Various emerging technologies will be examined and used to gather, prepare, and process financial and non-financial accounting data and to manage the data to produce value-adding accounting information.
Prerequisite: ACCT 3313 with a minimum grade of C.

ACCT 4336. Governmental & Nonprofit Accounting. 3 Hours.
Students examine issues related to financial accounting and reporting for governmental and nonprofit entities. Governmental accounting coverage comprises fund accounting, budgeting and control, revenue and expenditure recognition in governmental funds, accounting for business-type and fiduciary activities, and fund-level and government-wide financial reporting. Accounting for nonprofit organizations includes coverage of accounting topics unique to charitable organizations, colleges and universities, and health-care entities.
Prerequisite: ACCT 3313 with a minimum grade of C.

ACCT 4352. Federal Taxation Concepts II. 3 Hours.
Students study basic concepts and income taxation of business entities and their effects on the owners' tax liabilities. They also examine the relationship and differences between financial and tax accounting. Consideration is given to tax research and planning as well as decision-making and tax return problems.
Prerequisite: ACCT 3353 and ACCT 3314 with a minimum grade of C in each.

ACCT 4360. Oil And Gas Accounting. 3 Hours.
Student are introduced to oil and gas accounting with an emphasis on accounting for costs incurred in the acquisition, exploration, development, and production of oil and natural gas using successful efforts, full cost, and tax accounting methods. Students are also introduced to joint interest accounting, gas pipeline accounting, the required disclosures for oil and gas activities, and analysis of oil and gas companies' financial statements.
Prerequisite: ACCT 3313 with a grade of C or better.

ACCT 4363. Fraud Examination. 3 Hours.
Students examine fraud within organizations with an emphasis on its detection and prevention. Topics may include the nature and causes of financial and occupational fraud, ways to prevent and deter fraudulent conduct, and procedures for uncovering and investigating fraud.
Prerequisite: ACCT 3313 with a grade of C.

ACCT 4372. Auditing Principles. 3 Hours.
Students are introduced to auditing concepts and procedures with an emphasis on generally accepted auditing standards; professional responsibilities; the nature, acquisition, evaluation, and documentation of audit evidence; internal control; and the auditor's reports.
Prerequisite: ACCT 3324 and ACCT 3314 with a minimum grade of C in each.

ACCT 4379. Professional Accounting Ethics and Responsibilities. 3 Hours.
Students examine a framework of ethical reasoning, professional values and attitudes for exercising professional skepticism, and other behavior that is in the best interest of the public and the accounting profession. The student will develop a foundation for ethical reasoning, including the core values of integrity, objectivity, and independence required of professional accountants. The ethics rules of the AICPA, SEC, and the Texas State Board of Public Accountancy will be emphasized.
Prerequisite: A minimum grade of C in both ACCT 3314 and ACCT 3324.

ACCT 4389. Internship In Accounting. 3 Hours.
Students are provided with an internship experience allowing the application of accounting and auditing skills in an actual work setting. Students generally will work full-time in public or industry accounting paid positions for a minimum of 150 hours. Course may be taken as a general elective and cannot replace an accounting elective.
Prerequisite: Junior standing, ACCT 3314, ACCT 3324, permission of the Department Chair of Accounting, and selection by an employing firm.

Agribusiness (AGBU)

AGBU 2317. Principles of Agricultural Economics. 3 Hours. [TCCN: AGRI 2317]
Students are introduced to fundamental economic concepts, such as supply and demand analysis, economics of production, profit maximization, and market failure; all related to practical application in agriculture. Course Equivalents: AGRI 2317
Prerequisite: College-level ready in Mathematics, Reading and Writing and completed 15 credit hours.

AGBU 2385. Analysis of the Agricultural Sector. 3 Hours. [TCCN: AGRI 1325]
Students are provided an overview of the various sectors and institutions servicing agriculture. Focus is on the marketing efforts and added value that each sector provides to farm products. The course emphasizes the structure of each area, and the trends that shape their activities. An introduction to marketing activities with emphasis on agricultural commodities is also provided. Course Equivalents: AGRI 2385
Prerequisite: College-level ready in Mathematics, Reading and Writing and completed 15 credit hours.

AGBU 2389. Agribusiness Financial Analysis. 3 Hours. [TCCN: AGRI 1325]
Students are introduced to financial management for agricultural enterprises. Topics may include: depreciation, balance sheet, income and expense, production records, income tax principles, enterprise budgeting, partial budgeting, cash flow budgeting, and analysis and interpretation of farm records. Course Equivalents: AGRI 2389
Prerequisite: College-level ready in Mathematics, Reading and Writing, and completed 15 credit hours.

AGBU 2396. Special Topics in Agricultural Business. 3 Hours.
Students examine special topics/issues in Agricultural Business at an introductory level. This course may be repeated up to three times as topics and subject matter change.

AGBU 3350. Agribusiness for Agriculture Education Teachers. 3 Hours.
This course is designed to present agribusiness concepts that are included in the curriculum of post-secondary schools of Texas. Subjects include budgeting, finance, insurance, organization and management, marketing, and government policies. Course Equivalents: AGRI 3350
Prerequisite: CISE Minors only, Sophomore standing, and AGBU 2317.

AGBU 3361. Agribusiness Organization & Management. 3 Hours.
Students study management principles relevant to agribusiness firms, marketing management, e-commerce and value-added agriculture, managerial concepts, human resource management, and business organizations. Course Equivalents: AGBU 4361, AGRI 4361
Prerequisite: AGBU 2317, AGBU 2389 and completed 45 credit hours.

AGBU 3367. Agricultural Finance. 3 Hours.
Students study advanced agribusiness management applications of borrowed capital to operations; methods of determining loan needs for farmers; budgeting incomes to facilitate repayment of loans; cost of using borrowed capital; management of financial resources in agribusiness; and time value of money applications. Course Equivalents: AGRI 3367
Prerequisite: AGBU 2389 with a grade of C or higher or instructor approval, and completed 45 credit hours.

AGBU 3385. Quantitative Methods for Agribusiness. 3 Hours.
Students study quantitative tools from the fields of economics, statistics, and management as they relate to agricultural business decision making. The analytical and quantitative principles are applied to a variety of agricultural business situations. Topics may include forecasting, decision analysis, regression, and linear programming. Computer-based methods are emphasized. Course Equivalents: AGRI 3385
Prerequisite: AGBU 2317 and (MATH 1324 or MATH 1314) and (MATH 1342 or MATH 1325 or STAT 3379) and completed 45 credit hours.

AGBU 4319. Agribusiness Ventures. 3 Hours.
Students investigate the initiation of new food and agricultural enterprises through identification of innovative opportunities. Effective entrepreneurial behaviors, environment analysis, and risk management for start-ups are emphasized.
Prerequisite: AGBU 3361.

AGBU 4340. Agribusiness Marketing. 3 Hours.
Students study the major marketing strategies and decisions that must be made by agribusiness firms, including target market selection, marketing research, sales forecasting, product policies, distribution channels, pricing, advertising, and market control. The development of a strategic marketing plan for an agribusiness firm is required. Course Equivalents: AGRI 4340
Prerequisite: AGBU 2317 and AGBU 2385, and completed 45 credit hours.

AGBU 4362. Natural Resource Economics. 3 Hours.
Students engage in a contemporary study of issues in land, natural resource, and environmental economics. Topics may include energy, forests, population, fisheries, world food production, and minerals and pollution. This course discusses market efficiency relative to allocations of natural resources and pollution. Course Equivalents: AGRI 4362
Prerequisite: AGBU 2317 and Junior standing.

AGBU 4363. Agricultural Sales & Consulting. 3 Hours.
Students explore the principles of professional sales techniques used by food and agricultural firms. Necessary skills required in the agribusiness industry such as interpersonal skills, sales techniques, and sales forecasting skills are developed and enhanced. Emphasis is placed on the phases of preparation, learning, communication, and evaluation involved in a person selling a product, service, idea, etc., to a client. The focus of the course will be on business-to-business selling and consulting. Course Equivalents: AGRI 4363
Prerequisite: AGBU 2317, AGBU 2385 and completed 45 credit hours.

AGBU 4365. Legal Issues in Agribusiness. 3 Hours.
Students examine legal concepts and practical legal problems facing rural residents and agribusinesses. Taught from a "preventive" perspective, students acquire the legal awareness necessary to become an effective and analytical agribusiness decision maker. Legal issues include statutes, common law (cases), torts, landowner liabilities, and contract law as they relate to managing agribusinesses and owning rural land. Course Equivalents: AGRI 4365
Prerequisite: AGBU 2317 and completed 45 credit hours.

AGBU 4369. Special Topic. 3 Hours.
Students examine special topics/issues in Agricultural Business at an advanced level. This course may be repeated up to three times as topics and subject matter change.
Prerequisite: Junior standing.

AGBU 4374. Agricultural Market Analysis & Prices. 3 Hours.
Students study principles of agricultural market analysis to include: price analysis, price forecasting, forward contracting, futures market, market structure analysis, marketing and sales management. Course Equivalents: AGRI 4374
Prerequisite: AGBU 2317 and MATH 1342, and completed 45 credit hours.

AGBU 4375. Advanced Agribusiness Management. 3 Hours.
This course serves as a capstone course for agribusiness majors. The primary objective of the course is to help students integrate economic, financial, and strategic management concepts and apply them to analyzing the strategic options for agribusiness firms. Contemporary issues related to agribusiness are approached using information systems, industry representatives, field trips, and class presentations. In addition, the course emphasizes the development of important soft skills such as verbal and written communication, teamwork, and leadership. Course Equivalents: AGRI 4375
Prerequisite: AGBU 3367 and AGBU 4361 or AGBU 3361, and completed 90 credit hours.

AGBU 4377. Economics of Land Use & Planning. 3 Hours.
Students apply economic principles and legal policy relative to the allocation and conservation of natural resources and the environment. Topics, such as land use, energy policy, forestry, fisheries, water rights, animal rights, world food production, and pollution, are discussed in an economic and legal framework. Course Equivalents: AGRI 4377
Prerequisite: Junior Standing.

AGBU 4378. Farm & Ranch Management. 3 Hours.
Students focus on planning for the most efficient resource allocation in agricultural operations. This course uses previously taught economic, financial, and quantitative concepts and applies that to farm and ranch management. Course Equivalents: AGBU 3377, AGRI 3377
Prerequisite: AGBU 2317, AGBU 2389, and AGRI 1309.

AGBU 4386. Agriculture & Food Policy. 3 Hours.
Students examine and analyze the effects of government participation on farmers, ranchers, agribusiness firms and consumers. The main objective of this course is to establish the principles and conceptual framework encouraging productive discussions with other segments of society on agricultural policy issues. Topics may include the policy making process and the analysis of commodities, conservation, food safety, international trade, rural development programs, and the interrelationship of agriculture and agribusiness.
Prerequisite: AGBU 2317 and completed 75 credit hours Course Equivalents: AGRI 4386 .

Agricultural Communications (ACOM)

ACOM 2396. Special Topics in Agriculture Communications. 3 Hours.
Students examine special topics/issues in Agricultural Communications at an introductory level. This course may be repeated up to three times as topics and subject matter changes.

ACOM 3360. Communication Skills for Agriculturists. 3 Hours.
Students are provided an overview of information systems, principles, and procedures used in communicating agricultural news and information in various agricultural professions. Emphasis is placed on effective written and oral communication means in professional and media environments in addition to public relations efforts in agriculture. Sophomore standing. Course Equivalents: AGRI 3360
Prerequisite: ENGL 1302.

ACOM 4369. Special Topic. 3 Hours.
Students examine special topics/issues in Agricultural Communications at an advanced level. This course may be repeated up to three times as topics and subject matter change.
Prerequisite: ENGL 1302.

Agricultural Engineering Techn (AGET)

AGET 2303. Introduction to Agricultural Engineering Technology. 3 Hours. [TCCN: AGRI 2303]
Student are introduced to current and emerging topics and industry related to agricultural engineering technology. Topics covered may include: bio-diesel, wind energy, GPS/GIS applications, nanotechnology, and theory of fusion of metals, efficiency of internal combustion engines, and other technology-related subjects. Course Equivalents: AGRI 2303
Prerequisite: None.

AGET 2396. Special Topics in Agricultural Engineering Technology. 3 Hours.
Students examine special topics/issues in Agricultural Engineering Technology at an introductory level. This course may be repeated up to three times as topics and subject matter changes.

AGET 3300. Agricultural Electrification. 3 Hours.
Students explore principles and theory of electricity and applications in agriculture. Topics covered may include the transmission and distribution of electricity, Ohm's Law, DC/AC current, safety, NEC, converting bio-mass to electrical power, peak demand, dispatchable power, wind energy, photo-voltaic cells, and net-metering. Sophomore standing. Course Equivalents: AGRI 3300
Prerequisite: AGET 2303 or ETDD 1361.

AGET 3301. Agriculture Power Units and Control Systems. 3 Hours.
Students study the selection, maintenance, and service of agricultural power units, including small engines overhaul and preventive maintenance on agricultural tractors. Course Equivalents: AGET 2301, AGRI 2301
Prerequisite: AGET 2303.

AGET 3350. Plasma Arc Cutting Technology. 3 Hours.
Students examine the principles, technologies, and applications of plasma cutting processes with a focus on applications in the agricultural industry. Topics may include programming, operating, and controlling plasma tables; the use of plate markers; and related operations. In addition, the selection and use of new and emerging technologies, safety requirements, equipment, and workplace planning, scheduling, supervision, and management are examined.
Prerequisite: AGET 2303 or approval of the instructor.

AGET 3380. Agricultural Machinery. 3 Hours.
Students study design, construction, adjustment, operation, and testing of agricultural machinery and equipment systems. Topics may include theoretical and effective capacities, costs of operation, valuation of used equipment and queuing theory. Sophomore standing. Completed 55 hours. Course Equivalents: AGRI 3380
Prerequisite: AGET 2303 or ETDD 1361.

AGET 3383. Soil & Water Conservation Engineering. 3 Hours.
Students explore principles of soil and water conservation, erosion control, storm water management, structures for floodwater routing, culvert design, design of waterways, and retention basins. Plane surveying, topographic mapping, geographical information, and global positioning systems are utilized. Sophomore standing. Course Equivalents: AGRI 3383
Prerequisite: AGET 2303 or ETDD 1361.

AGET 3386. Agricultural Structures and Environmental Control Systems. 3 Hours.
Students explore functional requirements of agricultural buildings; valuation, appraisal, and estimating; structural requirements of agricultural buildings; planning and designing major service and processing buildings. Topics discussed may include thermodynamics, confined livestock housing, and environmental controls. Junior standing. Course Equivalents: AGRI 3386
Prerequisite: AGRI 2303 or ETDD 1361.

AGET 4369. Special Topic. 3 Hours.
Students examine special topics/issues in Agricultural Engineering Technology at an advanced level. This course may be repeated up to three times as topics and subject matter change. Junior Standing.
Prerequisite: AGRI 2303 or ETDD 1361.

AGET 4372. Agriculture and Construction Equipment Technology. 3 Hours.
Students examine advanced agriculture and construction machinery technology, their uses in agriculture and the construction industries, and operate machinery in real-world scenarios. Emphasis will be given to safe machinery operation, machinery management, and economic impact.
Prerequisite: AGET 4385 or AGET 4387.

AGET 4381. Advanced Metal Fabrication in Agriculture. 3 Hours.
This course serves as a capstone course for agricultural science students with previous experience in agricultural engineering technology. Teams address and solve a complex problem and as a result may design and construct a building, trailer, or other equipment in the laboratory.
Prerequisite: AGET 2303.

AGET 4384. Fusing & Joining of Metals & Non-Metals. 3 Hours.
Students engage in a comprehensive study of the theories, principles, and procedures of bonding and fusing metallic and non-metallic materials by the electric arc, oxy-fuel, and adhesive processes. Technical classroom instruction, laboratory exercises, and field trip experiences involve selection and utilization of new and emerging technologies and equipment, workplace planning, supervision, and management. Junior standing. Course Equivalents: AGRI 4384
Prerequisite: AGET 2303 or ETDD 1361.

AGET 4385. Applied Electronics/Hydraulics. 3 Hours.
Students explore cutting edge applications and integration of electronic and hydraulic principles and applications in agricultural and industrial processes and distribution systems. Topics may include Ohm's Law, Pascal's Law, and principles and theory of fluid dynamics. Junior standing. Course Equivalents: AGRI 4386
Prerequisite: AGET 2303 or ETDD 1361 and AGET 3301 or AGET 3380.

AGET 4387. Agricultural Engines & Tractors. 3 Hours.
Students study principles of the internal combustion engine, fuel injection, carburetion, and computerized engine monitoring equipment. Selection, valuation, wear analysis, and maintenance of power units for agricultural and industrial applications, including those powered by alternative fuel, are covered. Junior standing. Course Equivalents: AGRI 4387
Prerequisite: AGET 2303 or ETDD 1361 and AGET 3301 or AGET 3380.

AGET 4390. Turf & Cropland Irrigation & Drainage. 3 Hours.
Students study design and selection of surface or sub-surface irrigation and drainage systems for golf courses, greenhouses, sports fields, crops, landscape applications, and construction sites. Principles of pressurized irrigation systems including crop water requirements, soil moisture, irrigation scheduling, sprinkler irrigation, trickle irrigation, pumps, pipelines, and irrigation wells are covered. Course Equivalents: AGRI 4390
Prerequisite: AGET 2303 or ETDD 1361 and Junior standing.

AGET 4391. Agricultural Chemical Application Technology. 3 Hours.
Students examine agronomic crops and pests. A foundation for the safe and effective use of agricultural chemicals and environmental sustainability are emphasized. Students gain experience and knowledge in the calibration, operation, and maintenance of agricultural chemical application equipment. Students are prepared for obtaining a commercial pesticide applicator license.
Prerequisite: AGET 2303.

AGET 4392. Precision Technology Applications. 3 Hours.
Global positioning and geographic information system software and equipment is applied in settings involving precision farming and construction. Course Equivalents: AGRI 4392
Prerequisite: AGET 2303 or ETDD 1361 and Junior Standing.

AGET 4393. Renewable Energy Sources for Agriculture. 3 Hours.
Students study existing and potential alternative energy sources and production capacities, including wind, solar, bio-mass conversion, hydrogen, ethanol, vegetable oil, and bio-diesel. Impacts on the environment, ecological systems, world food supply, and economy are studied. Course Equivalents: AGET 4393
Prerequisite: AGET 2303 or ETDD 1361.

AGET 4394. Grain Harvesting and Management in Agriculture. 3 Hours.
Students examine transportation, storage, and safety challenges found within the U.S. grain industry. Students explore selection and management of technology applications for improved grain handling. Additionally, safety and economic storage of grain forage and hay crops are emphasized.
Prerequisite: AGET 2303.

AGET 4396. Directed Studies in Agricultural Engineering Technology. 3 Hours.
Arranged professional development learning experiences incorporating a practical application of Agricultural Engineering Technology skills and practices. To include internships, individual research and industry studies. May be repeated for credit up to six hours.
Prerequisite: Sophomore standing.

Agricultural Sciences (AGRI)

AGRI 1131. Introduction to Professional Leadership Skills. 1 Hour. [TCCN: AGRI 1131]
Students explore career options available to professionals in agricultural sciences, education, and business. Specific requirements for the various professions are discussed by a series of guest speakers. Course is intended for beginning students.

AGRI 1309. Computers in Agriculture. 3 Hours. [TCCN: AGRI 1309]
This course is designed to acquaint students with software applications useful to agriculture and how various technological advances are applied in modern agricultural enterprises.

AGRI 2396. Topics in Agriculture. 3 Hours.
Students examine special topics/issues in agriculture at an introductory level. Topics may be offered in: Agriculture, Animal Science, Agricultural Business, Horticulture and Plant Science, Agricultural Communications, and Agricultural Engineering Technology. This course may be repeated up to three times as topics and subject matter change.

AGRI 4096. Independent Studies. 1-3 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of agricultural skills and practices. To include internships, individual research, and industry studies. Course may be repeated for credit, max 6. Course Equivalents: AGRI 4396
Prerequisite: Sophomore standing.

AGRI 4100. Applied Agricultural Technology. 1 Hour.
Arranged developmental learning experiences incorporating an application of agricultural skills and practices in an emphasis area of the student's choice. Individual study plans are devised by faculty to provide the student with broad-based knowledge.
Prerequisite: Sophomore standing.

AGRI 4120. Professional Career Skills. 1 Hour.
Students engage in a review of current careers in agriculture with emphasis on professional and managerial opportunities. Topics may include preparation of resume, interview skills, and other means of professional communication.
Prerequisite: Junior standing.

AGRI 4341. Brewing Technology. 3 Hours.
Students examine the use of barley, hops, yeast, and other ingredients in craft brewing production. Biological and chemical processes in preparing, cooking, and fermenting brewed beverages are studied. Beer styles and quality influenced by ingredients, cooking, fermentation, and storage will be examined. Students improve sensory perception of craft beer.
Prerequisite: PLSC 1307 and CHEM 1406 or CHEM 1407 or CHEM 1411 or CHEM 1412 and Approval of instructor.

AGRI 4350. Agricultural Biosecurity. 3 Hours.
Students study the potential spread and prevalence of contagious organisms, reproductive diseases and contaminants in the agriculture, food, fiber, and natural resource industries. Concepts dealing with isolation, resistance, sanitation, containment, transportation, and food safety issues and potential economic impact to the agricultural industry and others are major topics.
Prerequisite: Junior standing.

AGRI 4364. International Agriculture. 3 Hours.
Students gain a global perspective of production agriculture, marketing, food supply chain, international trade, political and economic influences on world food and fiber production and distribution systems. May be taken for repeated credit as the curriculum may vary based upon location.
Prerequisite: Sophomore standing, faculty approval.

AGRI 4369. Special Topics in Agriculture. 3 Hours.
Students examine special topics/issues in Agricultural Science at an advanced level. This course may be repeated up to three times as topics and subject matter change.
Prerequisite: Junior standing.

AGRI 4371. Agricultural Safety & Health. 3 Hours.
Students examine the hazards and necessary safety precautions associated with the food, fiber, natural resources, and agricultural industry. Control strategies are explored and prevention methods identified. Hazards examined include machinery, livestock, controlled spaces, pesticides, and other issues common to the food, fiber, natural resources and agricultural industry.
Prerequisite: AGET 2303 or ETEC 1390 or ETDD 1361 and Junior standing.

AGRI 4388. Principles of Agriculture Leadership & Community Development. 3 Hours.
Students examine the characteristics of leadership theory, parliamentary procedure, personal development, and organizational structure.
Prerequisite: Junior standing or higher.

Agriculture Education (AGED)

AGED 2396. Special Topics in Agricultural Education. 3 Hours.
Students examine special topics/ issues in Agricultural Education at an introductory level. This course may be repeated up to three times as a topics and subject matter changes.

AGED 3310. Teaching Agricultural Technology. 3 Hours.
Students study methods in delivering instruction in agricultural technology as well as the principles in managing high school agricultural mechanics laboratories in a safe and efficient manner. CISE minors only. Junior standing. Approval by Instructor. Course Equivalents: AGRI 3310
Prerequisite: AGET 2303 or ETDD 1390 or ETDD 1361.

AGED 3320. The Secondary Agriculture Education Program. 3 Hours.
This course is designed to develop competencies of secondary agricultural education teachers to teach essential knowledge and skills in agricultural business, agricultural mechanization, animal science, horticulture, plant and soil sciences and natural resources. Course Equivalents: AGRI 3320 .

AGED 4096. Independent Studies. 1-3 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of agricultural education skills and practices. This course may include internships, individual research and industry studies. May be repeated for credit up to six hours. Course Equivalents: AGED 4396
Prerequisite: Sophomore standing.

AGED 4364. Methods of Teaching Agriculture Education. 3 Hours.
Students study the professional competencies required for the teaching of agricultural education. Included is the development of curriculum and occupational education programs as well as evaluation of teaching techniques, procedures, and resource materials. Methods of teaching students with disabilities are discussed.
Prerequisite: Admission to the Student Teaching program in Agricultural Sciences.

AGED 4365. Student Teaching in Agriculture Education. 3 Hours.
Directed observation and student teaching in an approved high school agricultural education classroom are required. Participation is essential in related agricultural education and FFA activities, such as LDEs, CDEs, SDEs, livestock shows, and FFA alumni and young farmer programs, etc. Senior standing. Must be currently enrolled in AGED 4364, AGED 4380, and AGED 4366.
Prerequisite: Grade of C or better in AGED 3320.

AGED 4366. Student Teaching in Agriculture Education. 3 Hours.
Further directed observation and student teaching in an approved high school agricultural education classroom are required. Participation is essential in related agricultural education and FFA activities, such as LDEs, CDEs, SDEs, livestock shows, and FFA alumni and young farmer programs, etc. Co-requisite: AGED 4364, AGED 4365, and AGED 4394.
Prerequisite: Grade of C or better in AGED 3320.

AGED 4369. Special Topics in Agricultural Education. 3 Hours.
Students examine special topics/issues in Agricultural Education at an advanced level. This course may be repeated up to three times as topics and subject matter change.
Prerequisite: Junior standing.

AGED 4377. Cooperative Extension Programs. 3 Hours.
Students acquire knowledge and skills needed for careers in the Cooperative Extension system through the understanding of its history, programmatic education, leadership, and employment opportunities. Students explore the roles and professional attributes of industry professionals and the various approaches to the delivery of adult and youth educational programs.
Prerequisite: Junior Standing.

AGED 4380. Responsibility of Professional Agricultural Science Teachers. 3 Hours.
This course is designed to assist future agricultural science and technology teachers in understanding the structure, organization, and management of public schools at the national, state, and local levels. Course content may include a study of the needs of the special learner, school finance and funding for career and technical education programs, agricultural science curriculum and graduation requirements, and cultural issues. The course also focuses on professionalism, program planning, personnel employment and evaluation, and legal issues critical to the success of agricultural science and technology teachers. Must be currently enrolled in AGED 4364, AGED 4365, and AGED 4366. Admission to the Student Teaching Program.
Prerequisite: Grade of C or better in AGRI 3320 and CISE 4364.

AGED 4388. Secondary Agriculture Education Program Management. 3 Hours.
Students focus on developing and managing the youth leadership aspect of agricultural science and technology programs in public schools. Students learn about leadership and career development events, the agricultural education record book documentation system, program of activity development, financial management, student and chapter awards programs, and scholarships for agricultural education students.
Prerequisite: Completed 55 hours.

AGED 4394. Agriculture Education Learning Environments. 3 Hours.
Students examine classroom management and discipline approaches appropriate in secondary agricultural education (AGED) classrooms and laboratories. Proactive and preventative measures are discussed to ensure student safety and a successful learning environment. Note: Students who have taken AGED 4394 may not take AGED 5394. Co-requisite: AGED 4364, 4365, and 4366.
Prerequisite: Admission to the Student Teaching program in Agricultural Sciences.

American Sign Language (SGNL)

SGNL 1401. Elementary American Sign Language I. 4 Hours.
Students who have had no previous instruction in American Sign Language develop vocabulary acquisition, cultural components, drills, sentence formation, and everyday conversation leading to proficiency. Language laboratory period weekly is required. Grade of C or better required in SGNL 1401 in order to continue to SGNL 1402. Instruction is in American Sign Language.

SGNL 1402. Elementary American Sign Language II. 4 Hours.
A continuation of SGNL 1401. Students add more speaking and writing toward advancing proficiency. Weekly language laboratory period is required. Instruction is in American Sign Language.
Prerequisite: Grade of C or better in SGNL 1401 or equivalent.

SGNL 2311. Intermediate American Sign Language I. 3 Hours.
A continuation of SGNL 1402. Students focus on more advanced skills. Instruction is in American Sign Language. Course Equivalents: SGNL 2401
Prerequisite: Grade of C or better in SGNL 1401 and SGNL 1402 or equivalent.

SGNL 2312. Intermediate American Sign Language II. 3 Hours.
A continuation of SGNL 2311. Students focus on fluent usage of American Sign Language with the purpose of mastering mid-level proficiency skills. Course Equivalents: SGNL 2402
Prerequisite: Grade of C or better in SGNL 1401, SGNL 1402, and SGNL 2311 or equivalent.

SGNL 3301. Advanced American Sign Language. 3 Hours.
As a continuation of Intermediate ASL II, students develop a high level of fluency in American Sign Language, using both expressive and receptive skills in regular weekly communications with persons in the Deaf Community. Students learn idioms and expansion features and discuss current events in the Deaf Community. Instruction is in American Sign Language.
Prerequisite: Grade of C or better in SGNL 1401, SGNL 1402, SGNL 2311, and SGNL 2312 or equivalent.

American Studies (AMST)

AMST 3311. Introduction to American Studies. 3 Hours.
This course is an introduction to American Studies, an interdisciplinary approach to understanding America and its cultures. By examining America's cultural productions through class discussions and reading and research, students will hone their analytical abilities, develop their understanding of history and culture, and acquire the skills to become critical, informed, and engaged global citizens. Course Equivalents: AMST 2311 .

Animal Science (ANSC)

ANSC 1119. Animal Science Laboratory. 1 Hour. [TCCN: AGRI 1119]
Laboratory for ANSC 1319. Course Equivalents: AGRI 1119
Prerequisite: Concurrent enrollment in ANSC 1319.

ANSC 1319. Animal Science. 3 Hours. [TCCN: AGRI 1319]
This is a basic course of study to acquaint students with the scope of animal science: origin, history and development of economically important species and breeds of livestock; concepts of selection, breeding, nutrition, management and research as applied to livestock production. Laboratory experiences (ANSC 1119) involve the practical skills needed to manage animal enterprises. Course Equivalents: AGRI 1319
Prerequisite: Concurrent enrollment in ANSC 1119.

ANSC 2321. Livestock Evaluation & Selection. 3 Hours. [TCCN: AGRI 2321]
This course is designed to present the basic principles and concepts in selection and evaluation of beef cattle, sheep, swine, and horses. The ability to present accurate and concise oral reasons for selecting and placing livestock is reviewed. Course Equivalents: AGRI 2321 .

ANSC 2330. Companion Animal Science. 3 Hours.
This course is an overview of the companion animal industry, including species and breeds, feeding and nutrition, reproduction, anatomy and physiology, care, management, training, health, behavior, and current research topics related to companion animals. Course Equivalents: AGRI 2330
Prerequisite: ANSC 1319 with a grade of C or better.

ANSC 2340. Application of Small Animal Behavior Modification. 3 Hours.
Students study instincts and behaviors of small animals and explore how to apply the knowledge to properly interact and train animals. Students learn training techniques that ensure animals are stable, well-behaved, and unobtrusive. Topics include inherited and learned behaviors, environmental considerations, and training techniques for positive behavioral modifications.

ANSC 2350. Food Safety and Regulation. 3 Hours.
Students gain knowledge in the microbiology of human foods and standard industry techniques of inspection and control. Topics include microbiological threats from human food, origins of foodborne illnesses, good manufacturing practices and standard operating procedures, Hazard Analysis and Critical Control Point (HACCP) principles specifically related to meat and poultry, food safety regulations, and regulatory agencies.
Prerequisite: ANSC 1319.

ANSC 2360. Animals and Society. 3 Hours.
This course acquaints the student with the broad role of animals in society from national, global, and historic perspectives. The impact of animals and domestic livestock on economic, social, and political policy are discussed. Emphasis is placed on agricultural and non-agricultural uses, societal and cultural perspectives, consumer influences, animal ethics, animal research, appropriate animal care, livestock quality assurance programs, animal welfare, animal rights and the animal-human bond. Course Equivalents: AGRI 2360 .

ANSC 2370. Introduction to Poultry Science. 3 Hours.
Students gain knowledge in poultry farming and management, along with information about employment opportunities in the poultry industry. Topics may include common breeds used, the breakdown of the industry, while also learning about management practices for each sector of the industry.
Prerequisite: ANSC 1319.

ANSC 2396. Special Topics in Animal Science. 3 Hours.
Students examine special topics/issues in Animal Science at an introductory level. This course may be repeated up to three times as topics and subject matter changes.

ANSC 3336. Livestock Marketing. 3 Hours.
Students study livestock marketing techniques, cash sales, risk management, forward contracting, problem solving using real-time livestock marketing situations, and risk of ownership in hypothetical livestock operations. Course Equivalents: AGRI 3336
Prerequisite: ANSC 1319 with a grade of C or better and Sophomore standing.

ANSC 3363. Anatomy & Physiology of the Domestic Animal. 3 Hours.
Students are introduced to anatomy and physiology of domestic animals. Aspects of the nervous, skeletal, muscular, circulatory, urinary, and endocrine systems are covered. Course Equivalents: AGRI 3363
Prerequisite: ANSC 1319 with a grade of C or better and Sophomore standing.

ANSC 3373. Animal Nutrition. 3 Hours.
This course consists of a scientific study of the processes of digestion, absorption, metabolism, physiology, and circulation of water, proteins, carbohydrates, lipids, vitamins, and minerals. Each nutrient is studied from the standpoint of chemistry, sources, function, and metabolism. Course Equivalents: AGRI 3373
Prerequisite: ANSC 1319 with a grade of C or better, 4 Credits in CHEM, and Sophomore standing.

ANSC 3376. Meat Science. 3 Hours.
Lecture topics may include muscle and skeletal biology, conversion of muscle to meat, food-borne illnesses, and HACCP. Labs focus on the methods of harvesting, preparation, preserving, and storing meat. Course Equivalents: AGRI 3376
Prerequisite: ANSC 1319 with a grade of C or better and Sophomore standing.

ANSC 3377. Meat and Muscle Biology. 3 Hours.
Students examine fundamental principles of muscle structure, function, fiber type, and repair, as well as the physiological transformation of muscle to an edible product. Additionally, students investigate how each of the characteristics of muscle affect the ultimate quality of a product through its conversion into meat.
Prerequisite: ANSC 1319 with a grade of C or better and Sophomore standing.

ANSC 4310. Animal Growth & Performance. 3 Hours.
Students study the physiological and endocrine system factors affecting growth and performance of domestic animals. The course may include the study of meat animal growth and developmental processes and factors that affect body/carcass composition, carcass quality and value. Course Equivalents: AGRI 4310
Prerequisite: ANSC 3373 and Junior standing.

ANSC 4336. Stocker & Feedlot Management. 3 Hours.
Students evaluate the basic principles involved in feeding, management, marketing, and disease control of stocker and feedlot cattle for economical production of beef. A review of scientific knowledge and research advances is applied to modern stocker and feedlot cattle operations. Course Equivalents: AGRI 4336
Prerequisite: ANSC 1319 with a grade of C or better and Junior standing.

ANSC 4337. Behavior and Management of Domestic Animals. 3 Hours.
Students study behavior associated with domesticated animals. The effects of selective breeding, physical and social environments, and the developmental stage on social organization are studied. Additionally, aggressive behavior, sexual behavior, productivity, and the training of domestic animals are examined. Course Equivalents: AGRI 4337
Prerequisite: ANSC 1319 with a grade of C or better and Junior standing.

ANSC 4339. Advanced Livestock and Horse Evaluation. 3 Hours.
Students engage in an advanced study of the visual appraisal, grading, and evaluation techniques affiliated with livestock and horses. The evaluation of conformation is studied along with the influence of heredity and environmental factors, industry trends and standards, and performance and production factors. Junior standing. Course Equivalents: AGRI 4339
Prerequisite: ANSC 2321 or ANSC 2390.

ANSC 4360. Livestock Management Techniques. 3 Hours.
Students explore skills and knowledge pertaining to the production of beef cattle, swine, goats, sheep, and horses. Laboratory exercises involve various management practices and selection of livestock based on visual evaluation and genetic performance. This course is not intended for animal science majors. Course Equivalents: AGRI 4360
Prerequisite: ANSC 1319 with a grade of C or better and must have completed 55 hours of coursework.

ANSC 4369. Animal Science Special Topics. 3 Hours.
Students examine special topics/issues in Animal Science at an advanced level. This course may be repeated up to three times as topics and subject matter change.
Prerequisite: Junior standing.

ANSC 4376. Sheep & Goat Production & Management. 3 Hours.
Student study the application of basic genetic principles, physiology, and nutrition to practical sheep, meat goat, and Angora goat production systems; management; health care: and marketing of animals and fiber. Course Equivalents: AGRI 4376
Prerequisite: ANSC 1319 with a grade of C or better Junior standing.

ANSC 4380. Beef Cattle Production & Management. 3 Hours.
Students study basic principles and methods of breeding, nutrition, reproduction, management, marketing, and disease control relating to various segments of the beef industry. Application of the latest bovine research is reviewed. Laboratory exercises involve practical skills relating to performance records and management of beef cattle. Course Equivalents: AGRI 4380
Prerequisite: ANSC 1319 with a grade of C or better and Junior standing.

ANSC 4389. Animal Reproduction. 3 Hours.
Students explore the physiology of the male and female reproductive tract; hormones governing reproduction; the estrous cycle; mating; gestation; parturition; lactation; artificial insemination; embryo transfer technology; and factors affecting reproductive efficiency of common animal species used for agricultural purposes. Junior standing. Course Equivalents: AGRI 4389
Prerequisite: ANSC 1319 with a grade of C or better.

ANSC 4393. Animal Legal Issues. 3 Hours.
Students examine legal issues and laws that affect animal ownership, handling, transport, and other prominent interactions between humans, animals, and society. Differences between criminal, civil, and tort law are discussed, as well as the differences between written and case law, and the penalties and ramifications of violating these laws.
Prerequisite: ANSC 1319 with a grade of C or better and Junior standing.

ANSC 4394. Animal Feeds And Feeding. 3 Hours.
Students study the characteristics of feedstuffs; a review of the essential nutrients and digestion; ration and mixture formulation; feeding methods; and nutritional management of beef, swine, sheep, goats, poultry, and horses. Exercises consist of practical applications in formulating rations for livestock using conventional techniques and computers. Course Equivalents: AGRI 4394
Prerequisite: ANSC 3373, and C or better in MATH and Senior standing.

ANSC 4395. Animal Breeding & Genetics. 3 Hours.
Student explore the application of genetic principles to livestock improvement. Student study the genetic basis of selection and systems of mating, and the development of breeding programs based on the principles of population genetics. Course Equivalents: AGRI 4395
Prerequisite: ANSC 1319 with a grade of C or better and Junior standing.

ANSC 4397. Disaster/Emergency Management in Agriculture. 3 Hours.
Students learn key information and tactical strategies to prepare evacuation plans and protocols for animal agriculture business ventures while understanding the management and implementation of plans from a community perspective. Topics may include risk and hazard assessment; processes to identify critical control points, resources, and agencies necessary to build effective plans of action and mitigation agreements for disaster preparedness; and implementation of tactical plans involving animal and agricultural enterprises.
Prerequisite: ANSC 1319 with a grade of C or better and Junior standing.

ANSC 4398. Animal Diseases & Public Health. 3 Hours.
Student study diseases shared in nature between animals and man. Emphasis is placed on how these diseases exist in natural environments, modes of transmission, and methods of control and prevention. Students explore infectious agents and the clinical signs that they cause in both humans and animals. Course Equivalents: AGRI 4398
Prerequisite: ANSC 1319 with a grade of C or better and junior standing.

Arabic (ARAB)

ARAB 1411. Elementary Arabic I. 4 Hours.
Students with no previous instruction in Arabic discuss and drill Arabic alphabet, pronunciation, vocabulary and basic language codes, stressing an oral approach to the language with emphasis on conversation and oral drill. A weekly one-hour language laboratory is required. Grade of C or better required in ARAB 1411 in order to continue to ARAB 1412. Course Equivalents: ARAB 1311 .

ARAB 1412. Elementary Arabic II. 4 Hours.
A continuation of ARAB 1411. Students discuss and drill language codes with more complexity, stressing aural and oral skills. A weekly one-hour language laboratory is required. Course Equivalents: ARAB 1312
Prerequisite: Grade of C or better in ARAB 1411 or equivalent.

ARAB 2311. Intermediate Arabic I. 3 Hours. [TCCN: ARAB 2311]
A continuation of ARAB 1412. Students add more complex structures as a basis for reading and aural comprehension as well as for oral communication.
Prerequisite: Grade of C or better in ARAB 1411 and ARAB 1412 or equivalent.

ARAB 2312. Intermediate Arabic II. 3 Hours. [TCCN: ARAB 2312]
A continuation of ARAB 2311. Students focus on practical needs for communication, including short cultural reading passages and more complex grammar, with particular emphasis on roots of Arabic words.
Prerequisite: Grade of C or better in ARAB 1411, ARAB 1412, and ARAB 2311 or equivalent.

ARAB 3380. The Contemporary Arab World. 3 Hours.
Students focus on additional skill development in listening, speaking, reading and writing, and cultural knowledge with insights and perspective via the viewpoint and linguistic expression of the native Arabic speaker. Students describe the linguistic and cultural ramifications of historical, political, social and economic situations in Arab countries with some comparison among Arabic countries. Topics may include gender issues, progress and reforms, the rise of fundamentalisms and the Arab-Israeli conflict. Arabic is the language of instruction.

ARAB 4075. Individual Readings in Arabic. 1-3 Hours.
Advanced students engage in an independent study of an area of interest in Arabic Studies. The course may be repeated for credit as content varies. Variable Credit (1 to 3). Course Equivalents: ARAB 4375
Prerequisite: Consent of instructor and department chair.

ARAB 4370. Seminar in Selected Topics in Arabic Culture. 3 Hours.
Students conduct an in-depth study of a selected topic. The topic to be explored will change from year to year. This course may be repeated for credit as the content varies.
Prerequisite: Advanced standing in Arabic or consent of instructor.

Art (ARTS)

ARTS 1301. Introduction To The Visual Arts. 3 Hours. [TCCN: ARTS 1301]
Students are introduced the visual elements of art, their nature, functions, and relationships in Painting, Sculpture, and Architecture to the non-major.
Prerequisite: Non-Majors only.

ARTS 1302. Exploring Contemporary Art. 3 Hours.
This course includes a critical analysis of major themes in contemporary art, providing students with an appreciation of the artifacts of human imagination. Through the processes of synthesis and interpretation, students engage in critical, creative, and innovative communication about contemporary works of art.

ARTS 1303. Art History Survey I. 3 Hours. [TCCN: ARTS 1303]
Students examine works of art and architecture from the Prehistoric Period to the late Middle Ages in a global perspective.

ARTS 1304. Digital Art & New Technology. 3 Hours.
Students are introduced to the practice of digital art and design in the age of social media and mobile devices. The emphasis is on digital imaging as a medium for artistic expression. Non-majors only.

ARTS 1313. W.A.S.H. - 2-Dimensional. 3 Hours. [TCCN: ARTS 1311]
Students are introduced to the studio arts, art history, theory, and technology. The course is designed to immerse students in an intense program of researching, interpreting, and creating art in the twenty-first century. ARTS 1313 emphasizes the 2-dimensional arts. Its companion courses, ARTS 1314 and ARTS 1315, support this studio course with lectures, readings, visiting artists, and demonstrations. Co-requisites: ARTS 1314 and ARTS 1315.

ARTS 1314. W.A.S.H. - 3-Dimensional. 3 Hours. [TCCN: ARTS 1312]
Students are introduced to studio arts, art history, theory, and technology. The course is designed to immerse students in an intense program of researching, interpreting, and creating art in the twenty-first century. ARTS 1314 emphasizes the 3-dimensional arts. Its companion courses, ARTS 1315 and ARTS 1313, support this studio course with lectures, readings, visiting artists, and demonstrations. Co-requisites: ARTS 1315 and ARTS 1313.

ARTS 1315. W.A.S.H. - Lecture. 3 Hours. [TCCN: ARTS 1313]
Students are introduced to the concepts, theories, and information for development in ARTS 1313 and ARTS 1314, the studio components linked with this visual arts foundation course. The course provides an arena for students to experience lectures, demonstrations, seminar activities, and visiting speakers as well as the more traditional aspects of the discipline. The course is geared towards contemporary visual concerns and uses experimental techniques to expose students to an array of styles and methodologies. Co-requisites: ARTS 1313 and ARTS 1314.

ARTS 1316. Drawing. 3 Hours. [TCCN: ARTS 1316]
Students engage in an in-depth study of the fundamental principles of drawing and mark making. Students draw from observation and develop the ability to create 2-dimensional representations using Line, Value, Shape, Edge, Plane and Volume, Space, Texture, Perspective, and Gesture. The use of negative space and compositional strategies are emphasized. Traditions of drawing are examined, and drawing is placed in a historical context that emphasizes its importance in contemporary art.

ARTS 1319. Drawing II. 3 Hours. [TCCN: ARTS 1317]
Students build upon skills learned in Drawing I. Students practice and expand the ability to create 2-dimensional representations using Line, Value, Shape, Edge, Plane and Volume, Space, Texture, Perspective, and Gesture. Students develop original and personal drawing style which demonstrates their awareness of trends in contemporary art.
Prerequisite: ARTS 1316 .

ARTS 2313. Foundations In Digital Art. 3 Hours. [TCCN: ARTS 2313]
Students are introduced to the use of the computer as an art-making medium. Students are introduced to digital software and techniques, image creation and manipulation, digital design, compositional methods, and the use of digital tools as a vehicle of creative problem-solving and personal creative expression.

ARTS 2317. Life Drawing I. 3 Hours. [TCCN: ARTS 2323]
Students engage in drawing from the model in various media. Gesture drawing and figure structure are studied. Line, Value, and Shape, Plane, and Volume are used as elements to depict the figure in space with accurate proportions. The study leads toward a final portfolio that demonstrates proficiency representing the figure in cohesive and complete compositions. Course Equivalents: ARTS 1317
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315 and ARTS 1316 with a grade of C or better.

ARTS 2323. Principles Of Graphic Design. 3 Hours.
The first in the graphic design program of study, this course emphasizes creative thinking, problem solving, and the development of the design process. Each project builds upon the previous one in depth and complexity as students explore a range of visual communication challenges.
Prerequisite: ARTS 1313,ARTS 1314, ARTS 1315, ARTS 2313.

ARTS 2343. Animation Concepts And Techniques. 3 Hours.
Students are introduced to 2D animation techniques, including the principles of motion, storyboarding, and character design. Students are also introduced to the use of computers in animation.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, and ARTS 2313 with a grade of C or better.

ARTS 2344. 2-Dimensional Computer Animation. 3 Hours.
Students use computer software to create 2D animations that incorporate traditional techniques and styles. Story development and character animation are emphasized, and video editing techniques are practiced.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 2343 with a grade of C or better.

ARTS 2365. Analog Photography. 3 Hours.
Students are introduced to advanced exposure techniques and the principles necessary to master use of film and the photographic darkroom.

ARTS 2370. Digital Photography and Media. 3 Hours. [TCCN: ARTS 2356]
Students explore and implement the tools and techniques used in the creation, editing, and presentation of digital editorial photography and journalism.

ARTS 2375. Photographic Concepts. 3 Hours. [TCCN: ARTS 2356]
Students are introduced to basic camera functions and concepts, use of visual design elements, and articulation of personal ideas through the medium of fine art photography.

ARTS 3305. Painting I. 3 Hours.
Students are introduced to the materials, techniques, and concepts of oil painting. Emphasis is placed on painting from observation, the depiction light and shadow, and basic color theory. Process based painting and concept-based abstraction are explored. Students learn to recognize and use the tools and materials and nomenclature related to oil painting including supports and grounds, mediums, binders, and brushes. The role of painting in art history and in contemporary art is examined.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316.

ARTS 3307. Performance and Video Art. 3 Hours.
Students explore performance and video art both in practice and theory, including live performance, performance and video, live presence/virtual spaces, performance for the camera, site specific performance, and collaborative performance.
Prerequisite: ARTS 1313, ARTS 1314, and ARTS 1315.

ARTS 3310. Printmaking. 3 Hours.
Students are introduced to the foundational print concepts and systems that are employed in all printmaking mediums. Students apply this knowledge to create prints which reflect these principles, and examine the role of printmaking in art history and in contemporary art.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316 and ARTS 2313.

ARTS 3314. Intermediate Studio. 3 Hours.
Students research, interpret, and create art with an emphasis on contemporary approaches. A variety of techniques are explored including 2-dimensional, 3-dimensional, and digital mediums. Projects are supported by readings, discussions, and writing assignments in contemporary art theory and criticism.
Prerequisite: ARTS 1313 and ARTS 1314 with a grade of C or better.

ARTS 3315. Collage. 3 Hours.
A class in which students follow the precepts of the twentieth century art form of using and exploring the juxtaposition and layering of a variety of materials and images. The dynamics of composition and a further investigation of the use of color and inherent capabilities of contrasting images and textures are studied. Students use a variety of materials including the found object, discarded papers, invented textures, and painted surfaces to create their imagery.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313 and ARTS 3318.

ARTS 3317. Life Drawing II. 3 Hours.
Students explore the use of the figure as subject matter in art. Observational skills are practiced and refined, and personal expression is emphasized. A variety of media are explored. The use of the figure in contemporary art is studied.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, and ARTS 1317 or 2317.

ARTS 3318. Sculpture I. 3 Hours.
Students explore a variety of processes and materials as ways of learning the vocabulary of three-dimensional art. Students incorporate wood, metal, and found objects into art as ways of expanding their visual vocabulary. Group critiques help the student learn contemporary approaches to art making in order to improve their sculptural skills and to develop personal artistic vision. Course Equivalents: ARTS 2318
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315.

ARTS 3320. Ceramics I. 3 Hours.
Students are provided an introduction to clay, the potential it has as a material, and an overview of the basic principles involved in the forming/processing of it. The basic forming techniques explore all aspects of hand building (pinch, coil and slab construction) as well as an introduction to the wheel. Basic firing techniques and finishes will be discussed. The emphasis of the course is rooted in sculpture.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315 and ARTS 1316.

ARTS 3322. Typography. 3 Hours.
An introduction to the principles, processes, and terminology of typography, this course is intended to develop the student's sensibility in the use of letter, word, text, typographic hierarchy, and organizational systems.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, and ARTS 2323.

ARTS 3323. Graphic Design In Context. 3 Hours.
In consideration of audience, medium, and message, students focus on design practice as applied to contemporary issues. Students pursue a range of projects that require deep exploration of concept as well as individual expression of voice and creativity.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2323, ARTS 3322.

ARTS 3324. Corporate Identity Design. 3 Hours.
Students focus on the integrated design of identity systems, marketing materials, and branding applications in order to establish and promote corporate identities. Students develop research-based, comprehensive branding strategies and identity designs for interrelated applications.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3323.

ARTS 3326. Graphic Design Production. 3 Hours.
Students focuses on graphic design production techniques and the application of contemporary tools and processes employed by visual designers. This course emphasizes the mastery of a digital workflow, concluding with the physical output.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, ARTS 3322, ARTS 3323 with a grade of C or better.

ARTS 3330. Methods in Art Education. 3 Hours.
This class is designed to give the art education major the tools necessary to be successful in the classroom. The primary focus is the development of a teaching philosophy and curricula relevant to the all level teaching certification. Topics covered may include developing a teaching philosophy, preparing and presenting lesson plans, techniques in various art mediums that are applicable to the classroom, and strategies for assessments and critiques. Class discussions and readings on current art education topics are also required.
Prerequisite: ARTS 3385, CISE 3384.

ARTS 3335. Packaging Design. 3 Hours.
Students examine graphic communication and techniques for packaging, structural, and three-dimensional design challenges. Experimentation with a diverse range of material and form, imagery, typography, and color are explored for a targeted audience based on comprehensive research, including the design brief. In addition, packaging sustainability is addressed.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313, ARTS 2323, ARTS 3322, and ARTS 3323 with a grade of C or better.

ARTS 3343. 3D Modeling and Animation I. 3 Hours.
Students study the basics of 3D Animation including 3D modeling techniques, key-framing and graph editing, shading, lighting, and rendering.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, and ARTS 2313.

ARTS 3344. 3D Modeling and Animation II. 3 Hours.
This course is designed for students who are experienced with basic 3D animation concepts and technical practice. The course introduces more sophisticated concepts and techniques and emphasizes animation development through hands-on practice. The course will focus on animation concepts, creative animation design, and expanding students' knowledge of topics, tools, and techniques.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2343, and ARTS 3343 with a grade of C or better.

ARTS 3353. Motion Graphics. 3 Hours.
Students study the use of design elements including type, logos, and images to create motion graphics for digital video and interactive applications. Students are introduced to video capture and editing in addition to motion graphics tools and programming languages.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313, ARTS 2323, ARTS 3322 and ARTS 3323 with a grade of C or better.

ARTS 3354. Experimental Animation. 3 Hours.
Students explore alternative techniques in the creation of animation to include cutout animation, pixilation, lo-fi animation as well as other emerging processes. Coursework focuses on experimental approaches to story and content generation. Readings and discussions are focused on technical, aesthetic, and theoretical issues relating to these disciplines.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, and ARTS 2343 with a grade of C or better.

ARTS 3355. Animation Pre-Production. 3 Hours.
Students create scripts, storyboards for animation, 2D and 3D animatics, and color schemes for animation and character designs. Proper cinematography techniques are emphasized.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, and ARTS 2343.

ARTS 3356. Visual Effects and Animation. 3 Hours.
Students explore visual effects for animation and digital film making. Students concentrate on the creative pipeline for the development of visual effects and the procedures for planning, creating, and applying such effects. Specific topics may include masking, particle systems, motion tracking, chroma key, and other related techniques. Students explore the use of visual effects for narrative and experimental contexts. Readings and discussions focus on technical, aesthetic, and theoretical issues relating to this discipline.
Prerequisite: ARTS 2343.

ARTS 3360. Photographic Printing. 3 Hours.
Students are provided an investigation of traditional and alternative photographic printing and mixed media processes. Students complete a portfolio of original photographic work demonstrating personal creative and conceptual development.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 3362. Environmental Portraiture. 3 Hours.
Blending portraiture and context, the environmental portrait illuminates the character and personality of its subject. Learning to photograph people in their natural surroundings thus capturing insight into their lives is the goal of this course. Students complete a portfolio of original photographic work focusing on the topic of environmental portraiture.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 3364. Photography Seminar. 3 Hours.
Each semester, the course will focus on a topic relevant in contemporary photography. Topics will rotate and vary from semester to semester. Readings, presentations, and research assignments will serve as the basis for the creative work produced in the seminar.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 3365. Film Appreciation. 3 Hours.

ARTS 3368. Photographic Lighting I. 3 Hours.
Students learn the fundamentals of working with light both in the studio and on location. They are introduced to the use and control of existing light as well as high-powered electronic flash in the realm of digital photography.
Prerequisite: ARTS 1313, 1314, 1315, 2365, and 2375 with a grade of C or better.

ARTS 3370. Digital Photography & Imaging. 3 Hours.
Students are engaged in an advanced study of the tools, techniques, and applications of digital photography in the desktop computing environment. Emphasis is placed on non-destructive manipulation of images and digital workflow techniques.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 3373. Digital Imaging. 3 Hours.
Students explore advanced computer imaging techniques in support of individual student interests. Advanced capture, manipulation, and printing procedures are explored and applied in developing digital portfolios.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 2375 with a grade of C or better.

ARTS 3374. Alternative Photo Processes. 3 Hours.
Students are introduced to a variety of photographic processes including historical and non-silver processes. Digital and analog processes are combined with experimental techniques and used creatively to create non-traditional artworks.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 3375. Web Site Development. 3 Hours.
Students are introduced to the process of designing and creating websites. Beginning with an understanding of the Internet and basic coding, students work with authoring tools used in building and maintaining websites. The course emphasizes portfolio development and presentation.
Prerequisite: ARTS 2313.

ARTS 3382. The History Of Animation. 3 Hours.
Students engage in a survey of the History of Animation from early cartoons through contemporary special effects and 3D characters. The political, artistic, and social uses of animation are examined.
Prerequisite: ARTS 2386 OR ARTS 3385 with a grade of C or better.

ARTS 3383. Design History. 3 Hours.
Students are provided an in-depth study of styles, schools, philosophies, and parallel fields of design from the Industrial Revolution to the present. Emphasis is placed on the development of the profession of graphic design and its relationship to commerce and technology.
Prerequisite: ARTS 2386 or ARTS 3385.

ARTS 3385. Art History Survey II. 3 Hours.
Students examine works of art and architecture from the Renaissance to the present in a global perspective. Course Equivalents: ARTS 2386 .

ARTS 3386. Ancient Greek and Roman Art. 3 Hours.
Students examine the art and architecture of the ancient Greek and Roman empires. Studies will also include earlier civilizations such as the Minoans and Myceneans through the dissolution of the Roman Empire and the early medieval period. Students consider various art forms such as ancient coins, bronze and marble sculpture, Roman wall painting, and religious and civic architecture.
Prerequisite: ARTS 1303, ARTS 3385.

ARTS 3387. Renaissance Art History. 3 Hours.
Students engage in a survey of art and architecture of the Renaissance in a global perspective.
Prerequisite: ARTS 1303 and ARTS 3385.

ARTS 3388. Art and Culture in Context. 3 Hours.
Students explore works of art and architecture in a specific historical and cultural context. The influence of social, political, economic, and religious circumstances on the creation and use of art works will be considered, as well as relationships and transitions between popular culture and fine arts.
Prerequisite: ARTS 1303 and ARTS 3385.

ARTS 4019. Special Topic. 1-6 Hours.
Students study problems selected within an area of specialization. Variable Credit (1-3). (This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog.) Course Equivalents: ARTS 4319
Prerequisite: 6 hours of credit in the area of investigation, with permission of the instructor and department chair.

ARTS 4079. Independent Study. 1-3 Hours.
This course is provided to allow the student, under the supervision of a faculty member, to develop specialized skills and to conduct an investigation into an area of special interest. Regular meetings are held with the faculty sponsor. The course culminates in a portfolio of work and/or a scholarly written report. Departmental approval is required before the student may enroll in this course. May be repeated or taken concurrently to a maximum of 6 hours. (This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog.) Variable Credit (1 to 3). Course Equivalents: ARTS 4379 .

ARTS 4305. Advanced Painting. 3 Hours.
Students explore traditional painting processes and concepts along with the introduction of non-traditional techniques and materials. Emphasis is placed on skill development and individual exploration of ideas.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3305.

ARTS 4307. Painting In Aquamedia. 3 Hours.
Students focus on transparent watercolor. Landscape, still life, and the figure are emphasized, along with experimentation.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 3305 with a grade of C or better.

ARTS 4309. Book Arts. 3 Hours.
Students explore techniques and processes used to create books as an artistic expression. Techniques such as papermaking and bookbinding are used along with printmaking, photography, and drawing. Students use traditional and experimental book structures to create books that are personal expressions. Each student creates a series of books. The historical and conceptual foundations of contemporary artists' bookmaking are also examined.
Prerequisite: ARTS 3310.

ARTS 4310. Advanced Printmaking. 3 Hours.
Students study advanced problems in printmaking as well as special procedures and problems involving further investigation of various printmaking media and formats. An emphasis is placed on creative development.
Prerequisite: ARTS 1313, 1314, 1315, and 3310 with a grade of C or better.

ARTS 4311. Advanced Studio. 3 Hours.
This course is an interdisciplinary studio course emphasizing contemporary issues in art. Students are encouraged to work in a variety of mediums, cross boundaries between mediums, incorporate technology, and collaborate. They develop a body of work that is based on concepts relevant to personal expression and contemporary issues. Group and individual critiques are used to evaluate progress and students are encouraged to exhibit their work.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313, ARTS 2323, ARTS 3322, and ARTS 3323 with a grade of C or better.

ARTS 4313. W.A.S.H Practicum. 3 Hours.
Students will gain leadership and advanced critique skills while mentoring other students, contributing and participating in the Workshop in Art Studio and History (W.A.S.H) program. Additionally, students will be expected to complete an independent studio project. Departmental approval is required.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, Senior standing.

ARTS 4315. Professional Practices in Art. 3 Hours.
Students prepare professional portfolios and proposals for exhibitions, grants, residencies, and other opportunities. Students learn to document their artwork and to prepare a portfolio and professional materials for the job market and exhibitions. They present exhibitions and talks to the public in professional settings. Class discussions, guest lectures, and readings on current art topics are also required.
Prerequisite: ARTS 1313, ARTS 1314, and ARTS 1315 with a grade of C or better.

ARTS 4316. Advanced Drawing. 3 Hours.
Students study drawing problems with emphasis on the development of personal expressive techniques.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 1319 with a grade of C or better.

ARTS 4317. Museum And Gallery Practices. 3 Hours.
Students focus on the practices and operations of Alternative Art Spaces, Commercial Art Galleries, and Museums of Art. Students visit museums and galleries in the area and assist with exhibitions in university art galleries. The course covers art handling and installation, registration procedures, and curatorial theories and practices. Students curate and mount exhibits and prepare press materials and publicity as course projects.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4318. Sculpture II. 3 Hours.
Students explore three-dimensional media through the proper use of tools, working processes, and a variety of materials. Emphasis placed on skill development and individual exploration of ideas.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3318.

ARTS 4320. Ceramics II. 3 Hours.
Students engage in a continued exploration of clay with an emphasis on personal expression and discovery. The course is geared towards those students dedicated to understanding the contemporary issues surrounding the material in relationship to their own work and methodology. There are a number of required readings/writings, along with several group discussions. Additional technical information is provided regarding advanced techniques (mold-making, firing wood/gas/soda kilns, and alternative building techniques). Interdisciplinary work is encouraged.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 3320 with a grade of C or better.

ARTS 4323. Senior Studio In Graphic Design. 3 Hours.
This capstone Graphic Design course prepares students to gain employment in the field by creating and producing a professional design portfolio, resume, social media presence, and self-promotional materials. Students will also gain knowledge about how to set up, prepare for, and conduct themselves during professional interviews.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2323, ARTS 3322, ARTS 3323, and ARTS 3324 with a grade of C or better.

ARTS 4325. Advanced Typographic Design. 3 Hours.
Students explore typography beyond its foundations. Students investigate the interdependence of type, image, and content, as they relate to visual communication. Experimental and hand-created type are explored with the goal of developing a sophisticated typographic voice.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 3323 with a grade of C or better.

ARTS 4331. Illustration. 3 Hours.
Students take an explorative and conceptual approach to contemporary illustration including both traditional and digital media. Students consider a range of design possibilities including visual metaphor as an illustrative solution.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313, ARTS 2323, ARTS 3322, and ARTS 3323 with a grade of C or better.

ARTS 4333. Interactive Design. 3 Hours.
This is an advanced course for web design concepts and processes as well as motion graphics applying Dreamweaver, Flash, Photoshop, and ImageReady applications. Students address terminology of the web environment, usability, web file formats, JavaScript, web typography, and web graphics. In addition, students are introduced to web-based interactive multimedia including animation, sound, and motion graphics.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313, ARTS 3322, ARTS 3323 with a grade of C or better.

ARTS 4343. Advanced Interactive Design. 3 Hours.
Students address usability, web file formats, multiple-platform design, advanced web typography, and the terminology of the interactive design environment. The course builds on theories and techniques introduced in ARTS 4333, including web design concepts, processes, and the application of programming languages to produce Responsive Website Design (RWD).
Prerequisite: ARTS 3322 and ARTS 4333.

ARTS 4350. Character Animation. 3 Hours.
Students explore the techniques of character animation and rigging, using pre-rigged characters and models in 3D computer software.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1319, ARTS 2313, ARTS 2343, and ARTS 3343 with a grade of C or better.

ARTS 4355. Shading, Lighting & Rendering. 3 Hours.
Students engage in an in depth study of surfaces and shaders including texture and image mapping, lighting for compositing, cel shading, and rendering methods.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1319, ARTS 2313, ARTS 2343, and ARTS 3343 with a grade of C or better.

ARTS 4356. 2D Interactive Animation. 3 Hours.
Students engage in an in-depth study of 2D Interactive Multimedia Technologies for the creation and distribution of content over the internet and as stand-alone desktop applications. Coursework is concentrated on the development of interactive audio and video, interactive narratives, and game production. Focus is on both asset creation and scripting for these types of applications. Readings and discussions focus on technical, aesthetic, and theoretical issues relating to this evolving art medium.
Prerequisite: ARTS 1313, 1314, 1315, 1316, 2313, 2343, and 3343.

ARTS 4357. 3D Interactive Animation. 3 Hours.
Students engage in an in-depth study of 3D Interactive Multimedia Technologies for the creation and distribution of content over the internet and as stand-alone desktop applications. Coursework is concentrated on the development of 3D models, environments, and animations for interactive narratives and game production. Additional topics may include the study of surfaces and shaders for 3D interactive media including texture and image mapping, lighting, shading, and rendering methods.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, ARTS 2343, and ARTS 3343 with a grade of C or better.

ARTS 4358. Animation Portfolio. 3 Hours.
Students create a work in a specific area of expertise and author a demo reel using this work and refined work from previous courses. The animation profession and industry is explored and professional presentation and resume building are taught.
Prerequisite: 12 hours of animation courses with a grade of C or better.

ARTS 4368. Photographic Lighting II. 3 Hours.
This course is a continuation of ARTS 3368. Students learn advanced studio lighting techniques while completing a body of creative photographic work. Course Equivalents: ARTS 3369
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2375 and ARTS 3368 with a grade of C or better.

ARTS 4370. Documentary Photography. 3 Hours.

Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 4371. Human Form: A Photographic Study. 3 Hours.
Students take an investigative look into the use of the human form through the medium of photography. Students discuss a variety of contexts and representations of the human body throughout the history of art. Students complete a body of photographic work using or referencing the human figure. Course Equivalents: ARTS 3366
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 4372. Photographic Narratives. 3 Hours.
Students are provided a broad and intensive investigation of visual narratives through photographic representation. Photographic books, journals, installations, slide shows, and mixed media collage are explored as a means of developing visual fluency and personal expression. The implications of photographic sequencing and contextual significance are also an emphasis of this course. Course Equivalents: ARTS 3376
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 4373. Contemporary Issues in Photography. 3 Hours.
Students are provided an understanding of contemporary photographic trends. The work of photographers who are currently having an impact on fine art photography are discussed along with critical analysis of art theory. Students are expected to complete a body of photographic work that demonstrates personal conceptual development. Course Equivalents: ARTS 3378
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, and ARTS 2375 with a grade of C or better.

ARTS 4380. Art History Seminar. 3 Hours.
Students examine the discipline and historiography of the field in this capstone course for art history majors. Students analyze theoretical texts in a seminar setting and apply research methods through different models of art historical analysis.
Prerequisite: ARTS 4385.

ARTS 4381. History of Photography. 3 Hours.
Students study the history of photography from its earliest beginnings. Technical, visual, aesthetic, and social aspects are considered. Course Equivalents: ARTS 3381
Prerequisite: ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4384. Modern Art Before 1945. 3 Hours.
Students examine modern art in Europe and the United States through a critical engagement with ideas of modernism and methodologies from 1850 through World War II. Mediums to be studied may include photography, painting, drawing, sculpture, and early film.
Prerequisite: ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4385. Art Since 1945. 3 Hours.
Students engage in an international examination of painting, sculpture, and other media since 1945. Students explore artistic production through social, political, historical, and theoretical frameworks.
Prerequisite: ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4387. History Of Mexican Art. 3 Hours.
Students engage in a survey of Mexican and Mesoamerican art. Students study images of prehistoric artifacts and the art and architecture of pre-Hispanic cultures, including the Olmec, Mixtec, Maya, and Aztec. The impact of the Spanish conquest, the role of art in the Mexican Revolution and the Socialist movement, Arte Popular, the Muralists, the late twentieth century, and contemporary Mexican art are also explored.
Prerequisite: ARTS 1303 and (ARTS 2386 or ARTS 3385) with a grade of C or better.

ARTS 4389. Criticism and Theory In the Visual Arts. 3 Hours.
Students study historical and contemporary aspects of major thinking concerning the visual arts.
Prerequisite: ARTS 1303 and (ARTS 2386 or ARTS 3385) and (ARTS 4385 or ARTS 4388) with a grade of C or better.

Astronomy (ASTR)

ASTR 3303. Life in the Universe. 3 Hours.
Students explore the evolution of life on Earth from an astronomical perspective and investigate the likelihood that this could happen elsewhere in the universe. This course also explores the possibility of communicating with intelligent species elsewhere in our galaxy and how humanity could best go about doing so. This course is typically taught every other spring term.
Prerequisite: PHYS 1403 or PHYS 1404.

ASTR 3383. Cosmic Catastrophes. 3 Hours.
Students build on knowledge of basic astronomical concepts discussed in previous coursework. Topics may include supernovae, neutron stars, black holes, gamma-ray bursts, worm holes, extra dimensions, and determination of the origin, state, and fate of the universe. This course is typically taught every other fall term.
Prerequisite: PHYS 1403 with a C or better.

ASTR 4100. Astronomy Seminar for Astronomy Minors. 1 Hour.
Students discuss current scientific literature in the field of astronomy and astrophysics. Topics may include dark matter, gravity waves, exoplanets, planetary formation, and other recent astronomical discoveries of interest.
Prerequisite: Astronomy minor or departmental approval, Senior standing.

Athletic Training (ATTR)

ATTR 2110. Taping and Bandaging. 1 Hour.
This skills-based course explores the appropriate utilization and application of preventative, therapeutic, and rehabilitative taping and bandaging used in the athletic training profession. The wrapping and bandaging of various extremities susceptible to injury in sport and activity are emphasized in this course. Course Equivalents: ATTR 2310 .

ATTR 2300. Introduction to Athletic Training. 3 Hours.
This course is an introduction to the profession of Athletic Training. Topics include methods of care, treatment, and rehabilitation of athletic injuries. Laboratory experiences are provided to assist the student with athletic injury scenarios. This course is offered in the Fall only.
Prerequisite: Department Approval.

ATTR 3370. Prevention & Care of Injuries. 3 Hours.
This course includes instruction and laboratory work in the care and prevention of injuries. It is designed to meet the needs of the athletic coach and physical education teacher. Course Equivalents: KINE 3370
Prerequisite: BIOL 2401 or BIOL 2403 or KINE 3321, and 45 Credit Hours or Department Approval.

ATTR 4369. Therapeutic Exercise Interventions. 3 Hours.
This course will focus on therapeutic exercise for a variety of injuries and conditions common in sport and exercise settings. Emphasis will be placed on timing and healing phases as indicators of appropriate interventions. Indications, contraindications, and precautions of various interventions will be included. This course is recommended for those students pursuing the allied health fields (e.g. physical and occupational therapy, athletic training, chiropractic, etc...)
Prerequisite: ATTR 3370 and BIOL 2403 or BIOL 2401.

Bassoon (BSSN)

BSSN 1101. Secondary Performances-Bassoon. 1 Hour.
Students study techniques and musicality related to bassoon in weekly individualized private instruction. Students admitted as a Bassoon primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

BSSN 1201. Individual Performances-Bassoon. 2 Hours.
The course consists of individualized private instruction on the bassoon. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

BSSN 3201. Individual Performances-Bassoon. 2 Hours.
The course consists of advanced individualized private instruction on the bassoon. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

BSSN 3202. Applied Bassoon with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the bassoon. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Bilingual/Eng as Sec lang (BESL)

BESL 2301. Multicultural Influence On Learning. 3 Hours.
This course examines how the diversity of the United States influences classroom learning. Linguistic dialects, socio-economic status, and cultural diversity are among the factors examined in relation to the educational process.

BESL 3301. Second Language Acquisition. 3 Hours.
This course examines language acquisition theories and philosophies related to learning a second language from early childhood to adult. The course also examines the history, rationale, political, community and global perspectives of bilingual education and English as a second language programs. Emphasis is placed on the principles and implementation of how children learn a language or languages, and how educators can develop academic programs and curriculum plans incorporating local, state, and national policies. Field experiences in K-12 public schools may be required.

BESL 4088. Special Topics in Bilingual/ESL Education. 1-3 Hours.
This course is designed for persons interested in enhancing educational principles related to current bilingual and English as a second language issues. This course will address specific topics related to second language learning, methodologies, curriculum, instruction, evaluation, parent/community involvement, program design and field experiences. Course Equivalents: BESL 4302 .

BESL 4089. Independent Study in Bilingual/ESL/Education. 1-3 Hours.

BESL 4301. Spanish Fluency In Classroom. 3 Hours.
This course is designed for persons interested in teaching in a Spanish instructional environment. Terminology specific to the instructional process, curriculum, and community is emphasized. Linguistic and cultural comparisons among different Spanish dialects represented in Texas are examined. The course is taught in Spanish.

BESL 4303. Curriculum In Bilingual and Second Language Programs. 3 Hours.
This course identifies appropriate curricula and teaching strategies to teach reading, language arts, mathematics, science and social studies to second language learners. Principles of current content area curriculum and instructional theory as related to language learning in a bilingual classroom are studied. This course is taught in Spanish. Field experiences in K-6 schools required. Taken concurrently with BESL 4304.
Prerequisite: 50 hours completed.

BESL 4304. Language Learning & Literacy Dev in Multilingual Students. 3 Hours.
This course provides an intensive study of the theories of language learning and literacy development for students learning English as a second language. Processes and strategies on the development of oral language and reading in the first and second languages are emphasized. Taught in Spanish. Field experience in K-6 public schools required. Taken concurrently with BESL 4303.
Prerequisite: 50 hours completed.

BESL 4305. Academic Language in Dual Language Programs. 3 Hours.
In this course students study formal academic language needed by bilingual educators with a focus on building content area vocabulary and appropriate terminology for teaching in dual language programs. Students engage in extensive practice in oral discourse, written expression, and the creation of culturally authentic didactic materials.
Prerequisite: BESL 4301.

BESL 4320. Student Teaching in the Bilingual/ESL Classroom. 3 Hours.
The EC-6 Bilingual Generalist candidate is assigned to student teaching in a bilingual/elementary classroom full time for approximately seven weeks.
Prerequisite: Admission to Student Teaching program.

Biology (BIOL)

BIOL 1401. Environmental Science. 4 Hours. [TCCN: ENVR 1401]
A general course designed to cover all areas relating to contemporary environmental issues. Topics may include air, water, and soil pollution; biodiversity, climate change; agriculture; pesticides; population growth; and energy. This course is designed for non-science majors to help them meet their General Education science requirement and as a required course in the Environmental Science degree. Includes a two-hour lab. BIOL 1401 cannot be applied to either a major or a minor in Biology. Fall, Spring, Summer. Course Equivalents: BIOL 1301
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 1406. General Biology I. 4 Hours. [TCCN: BIOL 1406]
Students examine the chemical basis of life, the structure and biology of the cell, molecular biology, genetics, and mechanisms of evolution. This course is one of two introductory courses (BIOL 1406 and BIOL 1407) which comprise a two-semester survey of modern biology. The course requires a 3 hour laboratory that is concurrently taken with the course. Fall, Spring, Summer.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 1407. General Biology II. 4 Hours. [TCCN: BIOL 1407]
Students undertake a detailed survey of the major phylogenetic lineages. This includes a comparison of the systems of different organisms, the ecological roles and relationships of organisms, and their behavior. This course is one of two introductory courses (BIOL 1406 and BIOL 1407) which comprise a two-semester survey of modern biology. The course requires a 3 hour laboratory that is concurrently taken with the course. Fall, Spring, Summer.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 1408. Contemporary Biology. 4 Hours. [TCCN: BIOL 1408]
This course is a presentation for the non-science major of contemporary hypotheses and the unifying principles of biology, including but not limited to: the scientific method and hypothesis testing, the definition of life, cell theory, the central dogma of biology (transcription of DNA to RNA to protein), genetic regulation and heredity, metabolism and homeostasis, organismal evolution, biodiversity, and ecology. The class builds scientific literacy and critical thinking skills for use in everyday life. Credit in BIOL 1408 as a laboratory science is contingent upon completion of the laboratory section. This course is designed for non-science majors to help them meet their General Education science requirement and cannot be applied to either a major or minor in Biology. Includes a two-hour lab. Fall, Spring, Summer. >b> Course Equivalents: BIOL 1308 .

BIOL 1436. Foundations Of Science. 4 Hours.
The course focuses on the nature of science as a reliable method of acquiring knowledge about the natural world. Students will learn how to apply key scientific facts, concepts, laws and theories to distinguish science from non-science, bad science, and pseudoscience by analyzing a variety of claims and case studies. By employing an innovative, interdisciplinary approach to science education, this course is designed to increase science literacy and critical thinking skills for introductory-level students. This course is designed for non-science majors to help them meet their General Education science requirement and cannot be applied to either a major or a minor in Biology. Students must enroll concurrently in the corresponding lab for this course. Includes a two-hour lab. Fall, Spring, Summer. Course Equivalents: GEOG 1436, GEOL 1436, ISCI 1436 .

BIOL 2110. Being a Professional Biologist. 1 Hour.
Students explore the biological sciences as a profession and gain proficiency in the skills required of successful professional biologists. Content areas in this seminar course may include career exploration, retrieval and use of scientific literature, bibliographic procedures, critical evaluation of claims, scientific professionalism, and locating/using campus resources.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or BIOL 1406 and BIOL 1407.

BIOL 2401. Human Anatomy. 4 Hours. [TCCN: BIOL 2401]
This course deals with structure and form of the human body. It includes studies of cells, tissues, and organ systems. Registration is primarily for students in prenursing or majors in kinesiology or health. Two-hour laboratory. Fall, Spring, Summer as needed. Credit in this course cannot be applied to either a major or minor in Biology.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 2402. Human Physiology. 4 Hours.
This course will help students identify and understand the function of several important human organ systems and how these systems maintain homeostasis. Topics and the mechanisms involving circulation, digestion, metabolism, muscle action and respiration will receive the most emphasis. This course is designed to emphasize a clinical knowledge of physiology and techniques required by students studying nursing, physical therapy, and related health fields. Two-hour laboratory. Fall and Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 2401 and CHEM 1406 or CHEM 1306 and CHEM 1106 or CHEM 1411 or CHEM 1311 and CHEM 1111.

BIOL 2403. Human Anatomy & Physiology I. 4 Hours.
This course is the first course in a two-semester sequence that examines the systems of the human body using an integrated approach. Emphasis will be given to the study of cells and tissues, and the anatomical and physiological interrelationships of the skeletal, muscular, and nervous systems and special senses. Laboratory exercises will enhance the student's appreciation and comprehension of the biological concepts of structure and function of the human body.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 2404. Human Anatomy & Physiology II. 4 Hours.
This course is the second course in a two-semester sequence that examines the systems of the human body using an integrated approach. Emphasis is placed on the study of the following systems: endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary, and reproductive. In addition this course requires in-depth application of topics related to cellular function and metabolism and of organ systems studied during Human Anatomy and Physiology I. Laboratory exercises will enhance the student's appreciation and comprehension of the biological concepts of structure and function of the human body.
Prerequisite: Minimum grade of C in BIOL 2403 and demonstrated college-level readiness in reading, writing, and math.

BIOL 2411. General Botany. 4 Hours. [TCCN: BIOL 1411]
Students are study general principles of botany. Emphasis is placed on morphology, taxonomy, genetics, physiology, and ecology of plants in an evolutionary and ecological context. Students may begin sequence with either BIOL 2411 or BIOL 2413. Includes a three-hour lab. Fall, Spring, Summer. Course Equivalents: BIOL 1311, 1411
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 2413. General Zoology. 4 Hours. [TCCN: BIOL 1413]
Students study general principles of zoology in an evolutionary context. Emphasis is placed on the anatomy, behavior, and ecology of animals. Students are introduced to evolutionary and ecological principles of biology. Students may begin sequence with either BIOL 2411 or BIOL 2313. Includes a three-hour lab. Fall, Spring, Summer. Course Equivalents: BIOL 1313, 1413
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 2420. Introduction to Applied Microbiology. 4 Hours. [TCCN: BIOL 2420]
An introduction to microorganisms, their morphology, growth requirements, methods of culture, and the manner in which they affect health. Reactions of the body toward pathogenic organisms and the principles of immunity and chemotherapy are considered. Two-hour laboratory. Fall, Spring. Credit in this course cannot be applied to a major or minor in Biology.
Prerequisite: Minimum grade of C or better in BIOL 2403 and BIOL 2404, and CHEM 1411 or CHEM 1406.

BIOL 2440. Introductory Cell Biology. 4 Hours.
An introduction to the study of cells, including scientific method, biochemistry, metabolism, cell energetics, membranes, cellular evolution, DNA, protein synthesis, the cytoskeleton, cell division, and the cellular basis of inheritance, with emphasis on the development of problem solving skills. Three-hour laboratory. Fall, Spring, Summer.
Prerequisite: Minimum grade of C in BIOL 1406, BIOL 1407, and CHEM 1411.

BIOL 2441. Forensic Biology Concepts. 4 Hours.
Students examine general biological concepts that apply to forensic science and learn the foundations of biology as they apply to legal investigations. Course topics may include the abiotic and biotic influences of decomposition; techniques in studying human remains; the analysis of blood tissues, fluids, and wounds; principles of DNA analysis, and molecular biology as applied to forensics; and wildlife forensics. The course requires a 3 hour laboratory that is taken concurrently with the course. Fall, Spring.
Prerequisite: Minimum grade of C in BIOL 1406, BIOL 1407; CHEM 1411.

BIOL 3320. Sustainability & Environment. 3 Hours.
Students investigate and assess the impacts that human activity can have on the environment and will seek to identify innovative, cross-disciplinary solutions to many of the world's most pressing environmental challenges. Given that Sustainability Science involves making decisions and taking actions that are in the interest of protecting the natural world, course topics will include current sustainability issues related to population growth, agriculture, natural resources, energy usage, habitat degradation and ecological economics. This course is typically be offered every other fall semester. Also offered as GEOG 3320. Course Equivalents: BIOL 2320, GEOG 2320, GEOG 3320
Prerequisite: BIOL 1401.

BIOL 3364. Plant Taxonomy. 3 Hours.
A study of the characteristics and classification of plants emphasizing systematic techniques. Focus on identification of the more common plant families allows transfer of knowledge to other regions of the country and world. Two-hour laboratory. Spring.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or BIOL 1406 and BIOL 1407.

BIOL 3390. Science Teaching Methods. 3 Hours.
In this course, students seeking the Composite Science teaching certification for the 7th through 12th grade level examine topics related to science teaching pedagogies. Topics include relevant concepts and literature regarding the nature of science, the planning and implementation of scientific investigations and activities, theory-grounded lesson construction and implementation, the use of equipment and technology, and the implementation of safety practices in laboratory settings.
Prerequisite: BIOL 1413 or BIOL 1407, BIOL 2440, CHEM 1411, CHEM 1412, GEOG 1401, GEOL 1403, GEOL 1404, PHYS 1301/1101, PHYS 1302/1102 or instructor approval.

BIOL 3409. General Ecology. 4 Hours.
A study of physical and biotic components of the environment, responses of organisms to their environment and each other. The course covers organismal, population, community, and ecosystem ecology. The application of ecological principles via field studies is an integral part of the laboratory. Three-hour laboratory and field work. Fall, Spring.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or BIOL 1406 and BIOL 1407.

BIOL 3410. Human Biology. 4 Hours.
This course deals with the study of structure and function of the human body. The structure of various organ systems are discussed and their function as organs and systems described. Three-hour laboratory. Offered as needed.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407).

BIOL 3420. Comparative Vertebrate Anatomy. 4 Hours.
A study of representative vertebrates, their anatomy, ontogeny, and phylogeny. Three-hour laboratory. Fall.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or BIOL 1406 and BIOL 1407.

BIOL 3430. Plant Physiology. 4 Hours.
General course dealing with principal life processes of plants. Topics include photosynthesis, respiration, nutrition, flowering, dormancy, hormones, growth, and development. Writing enhanced. As needed. Four hours lecture per week. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440, CHEM 1311, CHEM 1111 or CHEM 1411 and CHEM 1312, CHEM 1112 or CHEM 1412.

BIOL 3440. General Physiology. 4 Hours.
The study of the primary mechanisms by which autotrophic and heterotrophic organisms function. Important fundamental aspects of cellular, regulatory, and systemic physiology are presented emphasizing the functional aspect of living systems at the cellular and molecular level. Students are expected to develop an integrate understanding of the areas presented and recognize the interdependence of these mechanisms in the maintenance of homeostasis. Three-hour laboratory. Spring.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413 and BIOL 2440) or (BIOL 1406 and BIOL 1407), and CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123.

BIOL 3450. Introductory Genetics. 4 Hours.
Study is made of the physical basis of inheritance and principles of heredity and variation. Topics include Mendelian genetics, cytogenetics, molecular basis of genetics, gene expression and regulation, and DNA technologies. Two-hour laboratory. Writing enhanced. Fall, Spring, and Summer as needed.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413 and BIOL 2440) or (BIOL 1406, BIOL 1407, and BIOL 2440), and CHEM 1411, CHEM 1412.

BIOL 3460. Pathophysiology. 4 Hours.
A study of basic physiological systems and underlying system dysfunctions associated with human disease processes across the life span. Relationships between etiologic agents and their consequence to human form and function will be stressed. Critical thinking processes integrating symptoms, treatment and prognosis will be applied to physiological perspectives. Four hours lecture per week. Fall and Summer as needed.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407).

BIOL 3461. Wildlife Biology. 4 Hours.
The history and basic principles, philosophy and concepts of wildlife management as they relate to habitats, people, and the problems associated with their interactions. Three-hour laboratory and field work. Spring.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413, or BIOL 1406 and BIOL 1407, and BIOL 3409.

BIOL 3470. General Microbiology. 4 Hours.
An introduction to microorganisms including bacteria, viruses, and fungi. Major areas considered are morphology, physiology, genetics, and pathology. Microorganisms are studied in relation to soil, water, food, industrial processes, and disease. Three-hour laboratory. Fall, Spring, and Summer as needed.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407), and CHEM 1412.

BIOL 3480. Developmental Biology. 4 Hours.
A study of the genetic control of cell growth, differentiation, and morphogenesis in the formation of tissues, organs, and anatomy of a living organism, with emphasis on embryonic development and the evolutionary conversation of developmental mechanisms.. Three-hour laboratory. Writing enhanced. Even year, Fall.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407) and BIOL 3450.

BIOL 3490. Histology. 4 Hours.
A study of animal tissues with emphasis on human materials. Identification and preparatory techniques are stressed. Three-hour laboratory. Spring.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407), and CHEM 1412.

BIOL 3492. Plant Morphology. 4 Hours.
Survey of the plant kingdom with emphasis on morphogenesis, comparative structure and life cycles of representative plant forms. Three-hour laboratory. Fall, Summer.
Prerequisite: Minimum grade of C in BIOL 1411, BIOL 1413, and BIOL 2440.

BIOL 4080. Field and Experiential Biology. 1-3 Hours.
This course provides students with a first-hand, off-campus, opportunity to experience biology in a specialized setting. Potential settings include both domestic and international sites, and may consist of particular ecological regions, biological reserves, field data collection sites, laboratories, and clinics. Variable Credit (1 to 3). Course Equivalents: BIOL 3380
Prerequisite: Approval of Instructor.

BIOL 4095. Undergraduate Research Topics in Biology. 1-4 Hours.
This course is designed to allow selected, advanced students in specific areas of biology to participate directly in biological research. The research project will be developed jointly by the student and a faculty mentor, and must be pre-approved by the Chair of the Department of Biological Sciences. Variable Credit (1-4). Demonstrated college-level readiness in reading, writing, and math. This course may be taken for Academic Distinction Credit. See Academic Distinction Catalog Program in this Catalog.
Prerequisite: Biology major, minimum Junior standing.

BIOL 4096. Special Topics In Undergraduate Biology. 1-4 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new biological topics and concepts in a course setting, prior to that course's formal Department, College, and University course adoption. This course may be repeated for different Special Topics (different courses). Variable Credit (1-4). Demonstrated college-level readiness in reading, writing, and math. This course may be taken for Academic Distinction Credit. See Academic Distinction Catalog Program in this Catalog.
Prerequisite: Biology major, minimum Junior standing.

BIOL 4110. Undergraduate Seminar. 1 Hour.
Discussions of current literature in the biological sciences. Required of senior Biology majors. Fall, Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Biology major, Senior standing.

BIOL 4111. Undergraduate Seminar. 1 Hour.
Discussions of current research presented by faculty participating in the Department of Biological Sciences weekly seminar series. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Biology major, Senior standing.

BIOL 4306. Philosophy Of Biology. 3 Hours.
This course will help the student understand the philosophical issues associated with defining and applying theoretical terms and constructs within evolutionary biology. Even year, Spring. of Advanced Biology.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407), and 8 hrs.

BIOL 4320. Environmental Toxicology. 3 Hours.
(Also listed as ENVR 4320). This course presents basic toxicology as a qualitative and quantitative science of the effects of poisons (toxins) upon the environment, individuals, and populations. The course will also provide a comparison of the toxicology of human and other species' exposure to common environmental contaminants. Two one-hour lectures and one two-hour laboratory as needed.
Prerequisite: (BIOL 1411, BIOL 1413, and BIOL 2420) or (BIOL 1406 and BIOL 1407), and (8 hrs of Advanced Biology and MATH 3379) or BIOL 4374.

BIOL 4330. Aquatic Biology. 3 Hours.
This course covers physical, chemical, and biological features of inland waters; organisms of freshwater; factors in biological productivity; methods and equipment. Laboratory focuses on various methods of sampling biotic and abiotic components of freshwater systems. This course is designed to meet the needs of ecologists, biologists, environmental scientists, and teachers of science. Two-hour laboratory. Fall.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or BIOL 1406 and BIOL 1407, and Junior standing.

BIOL 4350. Immunology. 3 Hours.
Humoral and cell-mediated immunobiology, innate immunity, genetics, and chemistry are considered along with immunoanalysis and pathologies. Spring.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407), and BIOL 3470, CHEM 2323, and CHEM 2123.

BIOL 4360. Genetic Analysis of Human Disease. 3 Hours.
A study of the transmission and molecular basis of human genetic traits and genetic diseases. Various simple and complex genetic disorders will be examined using pedigree, molecular, and biochemical analyses. Novel approaches to the diagnosis and treatment of human genetic disorders will be discussed. Special topics examining the ethical, legal, social issues and concerns of genetic testing and discrimination, germ line therapy, genetic enhancement, and human cloning are examined. Spring. Odd years.
Prerequisite: Minimum grade of C in BIOL 3450.

BIOL 4361. Evolutionary Biology. 3 Hours.
Evolution is the core theory of modern biology. Students investigate the major principles of evolutionary biology, from the history of evolutionary thought through theory and current concepts of evolution. Emphasis will be placed on molecular and cellular evolution, mechanisms of evolution including natural selection, gene flow, founder effect, and speciation.
Prerequisite: Minimum grade of C in (BIOL 1411, BIOL 1413, and BIOL 2440) or (BIOL 1406 and BIOL 1407), and BIOL 3450.

BIOL 4362. Paleobiology. 3 Hours.
This course examines temporal and spatial changes of life on earth in an evolutionary context, particularly large scale events such as radiations and extinctions. Emphasis is placed on anatomy and taxonomy of fossil invertebrates and vertebrates. The laboratory component encompasses the collection, preparation, and description of a variety of fossil types.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or BIOL 1406 and BIOL 1407.

BIOL 4363. Genomics and Bioinformatics. 3 Hours.
Students analyze advances in genomics and bioinformatics and apply computational and bioinformatic approaches to understand the genome structure, function, and evolution. Topics may include DNA sequencing, sequence assembly, gene and protein sequence alignments, whole genome comparison, annotation of DNA sequences, promoter analysis, transcriptomics, proteomics, and phylogenetic analysis.
Prerequisite: Minimum grade of C in BIOL 3450 and Junior standing.

BIOL 4370. Microbial Ecology. 3 Hours.
This course introduces the student to basic ecological concepts through the study of microbial communities. Interactions at the microscopic and macroscopic levels will be discussed along with biogeochemical cycles. Bioremediation concepts will also be explored. Two one-hour lectures and one three-hour laboratory as needed. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440, and BIOL 2420 or BIOL 3470, CHEM 2125 and CHEM 2325, and Junior standing.

BIOL 4374. Biostatistics. 3 Hours.
This course includes an introduction to statistical methods and their application to real biological problems. Topics include descriptive statistics, probability distributions, estimation, hypothesis testing, correlation and regression, and analysis of variance. Use of the computer in statistical analyses will also be stressed. Fall and Spring.
Prerequisite: (Minimum grade of C in MATH 1314 or MATH 1420 and 8 hours of advanced Biology) or (Junior standing, BIOL 3409, and C or better in MATH 1342, 1420, or 3379).

BIOL 4380. Medical Microbiology. 3 Hours.
An advanced study of the microorganisms that cause disease and of the disease processes with focus on bacteria and viruses. Emphasis will be placed on pathology, epidemiology and treatment/prevention of specific infectious diseases of medical importance. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 3470 and Junior standing or consent of the instructor.

BIOL 4381. Advanced Molecular Biology. 3 Hours.
Students investigate key concepts in molecular biology and biochemical processes of prokaryotic and eukaryotic cells and their viruses. Topics include the detailed examination of genes and chromosomes, as well as the mechanisms of DNA replication, repair, and recombination. Additional topics may include regulation of gene expression, transcription, RNA processing, RNA interference, translation, protein folding and modification, as well as the relevant techniques used to study these biological processes.
Prerequisite: Minimum grade of a C in BIOL 3450, BIOL 3470, and CHEM 2323.

BIOL 4394. Biological Sciences Internship. 3 Hours.
A supervised, off-campus intern work experience in an approved area of the biological sciences with business, industry or government. This elective course provides the student with direct professional work experience in such areas as biotechnology, biomedical research, ecological assessment, wildlife biology, and science/nature education. Academic credit is based on a written technical report and an oral presentation. Writing enhanced. of advanced biology.
Prerequisite: Biology major and 6 hrs.

BIOL 4398. Senior Thesis I. 3 Hours.
In this class, a student works under close faculty supervision on a sustained research project to produce a thesis proposal. Project topics will vary based on advisor's research expertise. Students will gain hands on experience in conducting research and scientific writing. Successful completion of BIOL 4398 and BIOL 4399 may qualify the student to graduate with Academic Distinction (see the undergraduate catalog for additional requirements of the Academic Distinction Program).
Prerequisite: Senior standing and approval of the department chair.

BIOL 4399. Senior Thesis II. 3 Hours.
Students in this course work under close faculty supervision on a sustained research project to produce a thesis. Project topics will vary based on advisor's research expertise. Students will gain hands-on experience in conducting research and scientific writing. Sucessful completion of BIOL 4398 and BIOL 4399 may qualify the student to graduate with Academic Distinction (see the undergraduate catalog for additional requirements of the Academic Distinction Program).
Prerequisite: Minimum grade of B in BIOL 4398 and approval of the department chair.

BIOL 4410. General Entomology. 4 Hours.
Students examine insect morphology, taxonomy, development, and life histories. Collection techniques and the use of keys to identify insects are stressed.
Prerequisite: BIOL 2440 or BIOL 1406 and BIOL 1407.

BIOL 4430. Vertebrate Natural History. 4 Hours.
This course deals with the taxonomy, natural history, and ecology of vertebrates. Laboratories emphasize the identification of Texas vertebrate species and field techniques used in their study. Two-hour laboratory. Odd year, Spring.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or BIOL 1406 and BIOL 1407.

BIOL 4460. Parasitology. 4 Hours.
Morphology, life cycles, physiological adaptations, evolution, and distribution of parasitic animals. Three-hour laboratory. Fall.
Prerequisite: Minimum grade of C in BIOL 2440 or BIOL 1406 and BIOL 1407.

BIOL 4470. Animal Behavior. 4 Hours.
A study of the mechanisms and functional explanations of behavior. Experimental approaches to addressing questions of behavior will be emphasized. Topics will include behavioral genetics, neuroethology, migration, habitat selection, foraging, communication, social behavior, reproductive strategies, and human sociobiology. Field studies and independent projects will be integral components of this course. Two-hour laboratory. Fall.
Prerequisite: Minimum grade of C in (BIOL 1411 and BIOL 1413) or (BIOL 1406 and BIOL 1407).

BIOL 4471. Invertebrate Zoology. 4 Hours.
This course will explore the diversity of invertebrate types morphologically, embryologically and physiologically. The ecological role of invertebrates will be emphasized. Two-hour laboratory. Even year, Fall.
Prerequisite: Minimum grade of C in BIOL 2440 or (BIOL 1406 and BIOL 1407).

BIOL 4480. Molecular Genetics. 4 Hours.
A hands-on study of the structure and function of molecules important for the Central Dogma of molecular biology, including DNA and protein, with emphasis on electrophoretic analysis and gene cloning. Three-hour laboratory. Fall, Spring.
Prerequisite: Minimum grade of C in BIOL 2440 or (BIOL 1406 and BIOL 1407), and BIOL 3450, BIOL 3470, CHEM 2125 and CHEM 2325.

BIOL 4481. Physiological Ecology. 4 Hours.
This course is a study of the functional processes of organisms within the context of ecological and evolutionary theory, focusing on mechanisms of organismal function, energetics, and the energetic consequences of homeostasis when function is influenced by the environment and other ecological and evolutionary processes. This course is designed for students preparing for graduate studies in integrative biology and does not meet the physiology requirement or recommendation for physiology of medial/dental or allied health programs. Three-hour laboratory. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 3450, BIOL 3409, Concurrent enrollment allowed; Junior standing.

BIOL 4490. Cell Biology. 4 Hours.
A study of eukaryotic cell structure and function, including protein synthesis, membrane structure and function, intracellular trafficking, cell communication, cell motility, mitosis, and cell cycle control, with emphasis on the use of model organisms. Three-hour laboratory. Fall.
Prerequisite: Minimum grade of C in BIOL 2440 or BIOL 1406 and BIOL 1407, and BIOL 3450, BIOL 3470, CHEM 2125, and CHEM 2325.

BIOL 4493. Endocrinology. 4 Hours.
This course is designed to familiarize the student with the structure, development, comparative anatomy, and physiology of the endocrine system. Two-hour laboratory. Spring, or as needed. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 3450 and Junior standing.

Business Administration (BUAD)

BUAD 1211. PGA/PGM Professional Development Seminar. 2 Hours.
This course is designed to guide students through the completion of the Level 1 materials of the PGA of America Professional Golf Management Program. This course is only available to students enrolled in the PGA/PGM program. The course may be repeated for a maximum of 8 academic credit hours. Course Equivalents: BUAD 1011, BUAD 1111 .

BUAD 1301. Introduction to Business Careers. 3 Hours. [TCCN: BUSI 1301]
Students are provided a survey of all the major business disciplines with an emphasis on helping define career objectives and supporting academic interest areas as well as an overview of what is involved in accounting, marketing, management, legal aspects of business, economics and finance. This course is an ideal choice for any students wanting to learn of opportunities in business and how to pursue them. The course is not open to business majors with junior or senior standing.

BUAD 2189. Pga/Pgm Internship. 1 Hour.
A course is designed to provide the student with an initial opportunity to apply academic skills in a practical work environment as required to complete the PGA/PGM Program. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit. The course may be repeated for a maximum of 2 hours of academic credit and is only available to students enrolled in PGA/PGM program.

BUAD 2321. Design and Presentation of Business Projects. 3 Hours.
The focus of this course is designing and delivering effective business presentations. Topics may include planning, developing, organizing, and delivering business presentations. Students will design/develop effective visual aids that will be used in their business presentations using computer-assisted software.
Prerequisite: 30 hours.

BUAD 3189. Pga/Pgm Internship III. 1 Hour.
A course designed to provide the student with additional opportunity to apply academic skills in a practical work environment as required to complete the PGA/PGM Program. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit. The course is only available to students enrolled in PGA/PGM program.

BUAD 3269. Advanced PGA/PGM Professional Development Seminar. 2 Hours.
This course is designed to guide students through the completion of the Levels 2 and 3 materials of the PGA of America's Professional Golf Management Program. This course is only available to students enrolled in the PGA/PGM program. The course may be repeated for a maximum of 6 academic credit hours. Course Equivalents: BUAD 3069, BUAD 3169 .

BUAD 3301. Business Legal Environment. 3 Hours.
Students cover legal environment from a "preventive law", practical perspective. Specific subjects may include: Litigation, Alternative Dispute Resolution, Torts, Business Organizations, Real and Personal Property Law. Students are provide an introduction to Environmental Law, Consumer Law, Securities Law, Human Resources Management Law (Labor Law), and Marketing Law (Anti-Trust). Course Equivalents: BUAD 2301 .

BUAD 3335. Business Communication. 3 Hours.
Students develop skills required to use communications as a business tool and a personal skill with emphasis on the logical development of routine, written messages, and reports.
Prerequisite: ENGL 1302 and 42 hours.

BUAD 3336. Successful Workplace Relations. 3 Hours.
This course is designed to provide the foundation for the development of successful workplace relationships. The course includes an overview of social and emotional intelligence skills that are most commonly used by successful business professionals. Skills are introduced for managing personal ethics, conflict, and trust, which are essential for managing and leading in the business environment. Course Equivalents: BUAD 4348 .

BUAD 3337. Artificial Intelligence for Business Communication. 3 Hours.
Students apply artificial intelligence (AI) tools for communicating in business situations and explore the ethical and practical considerations of using these technologies.
Prerequisite: BUAD 3335 and 42 Credit Hours.

BUAD 3338. Entrepreneurial Law. 3 Hours.
Students examine the major legal issues confronting entrepreneurs and owners of small businesses. The course presents an overview of the legal issues, strategies and documents required to start a new business, raise capital and manage legal and civil liability. An assortment of legal documents, such as employment contracts, sales contracts, insurance contracts, and shareholder agreements will be examined. Procedures to protect intellectual property will also be addressed.

BUAD 3340. Visualized Messaging in the Workplace. 3 Hours.
Students learn and apply the principles and conventions of visual design and data visualization appropriate for business settings and use that knowledge to create workplace-appropriate messages that include essential visual elements. Students develop the skills to select and visually design relevant information and data to compose compelling, ethical business messages for internal and external decision-makers.
Prerequisite: MGIS 1305 OR CSTE 1330.

BUAD 3345. Entrepreneurship I - Startup. 3 Hours.
Students are provided an overview of theories of entrepreneurship, the process of creating wealth, and public policies that encourage new venture formation and economic growth.

BUAD 3355. Business Law. 3 Hours.
The focus of this course is on areas of modern commercial law as needed by business professionals in conducting business transactions in buying and selling goods and services. Common Law Contracts and negotiation strategies are presented. Students exam the Uniform Commercial Code includes Sales Law, Leasing, Commercial Paper - Negotiable Instruments, Commercial Storage and Distribution of Goods, and Transfer of Securities. Creditor's rights and U.S. Federal Bankruptcy Code are also covered.

BUAD 3357. Financial Compliance and Regulations. 3 Hours.
Students explore current financial and banking industry regulations critical to effective financial and banking management with an emphasis placed on how to create a compliance program that is in accordance with both state and federal regulatory agencies.
Prerequisite: Junior standing.

BUAD 3360. Human Resources Management Law. 3 Hours.
This course is designed for students who are seeking management positions and human resource management specialists. Students study employment law with particular emphasis on Federal Laws on discrimination, compensation and promotion issues, worker safety, and employment benefits. Taught from a "preventive law" perspective, students acquire skills needed to keep abreast of the changing legal environment for employers and employees. Sexual harassment, affirmative action, workers compensation, worker safety and practical overview of employment manuals and procedures provide valuable information for future employees, managers or business owners.
Prerequisite: 42 credit hours.

BUAD 3370. Cyberlaw & E-Commerce Regulation. 3 Hours.
Students explore the legal aspects and regulation of content creation, social and digital marketing, e-commerce, intellectual property, online communication, digital privacy, and legal obligations and liability stemming from cybersecurity risk and compliance. Students apply these concepts to the complete business life cycle - from idea ot operation to dissolution - while examining the legal and ethical issues affecting the online presence of businesses.
Prerequisite: 42 Credit Hours.

BUAD 3375. Entrepreneurial Sales. 3 Hours.
In this dynamic course, students delve into the practical and tactical aspects of a business founder - selling their vision to investors, prospective employees, and strategic partners within a sophisticated marketplace. Students engage in project-driven fieldwork both on and off campus, simulating the uncertainty inherent in entrepreneurship. Students think creatively, collaborate, and hone their sales prowess.
Prerequisite: 42 Credit Hours.

BUAD 3380. Ethics for Business Executives. 3 Hours.
Students examine ethical problems in business and the foundations for decisions involving ethical issues. Students identify ethical decision making with regard to fiduciary obligations, use of corporate resources, organizational culture, insider trading prohibitions, legal compliance obligations, whistleblowers, plant closures and leveraged buyouts, company loyalty and conflicts of interest as they impact the decision process in the functional areas of business.
Prerequisite: 42 Credit Hours.

BUAD 4080. Independent Study. 1-3 Hours.
An opportunity for the student to design a course, perhaps on a topic not offered or to more deeply investigate a subject of personal interest. A faculty member will be teamed up on a one-to-one basis to customize a project. Variable Credit (1 to 3). Course Equivalents: BUAD 4380
Prerequisite: Consent of the department chair.

BUAD 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new General Business topics and concepts in a course setting. Variable Credit (1 to 3). Course Equivalents: BUAD 4385 .

BUAD 4289. Pga/Pgm Internship IV. 2 Hours.
A course designed to provide the student with an opportunity to apply advanced academic skills in a practical work environment as required to complete the PGA/PGM Program. (See Internship Coordinator prior to enrolling.) The course is only available to students enrolled in PGA/PGM program.

BUAD 4300. Social Entrepreneurship: A Practice-Based Approach. 3 Hours.
Students examine the diverse field of social entrepreneurship, where individuals and organizations use the marketplace to solve social problems in a creative and sustainable manner. Students practice the skills and mindset needed to succeed as a social entrepreneur and to impact the lives of others.
Prerequisite: BUAD 3345 and 42 Credit Hours.

BUAD 4310. Securities Regulation. 3 Hours.
Students examine the federal and state securities laws, including the process by which capital is raised to fund a business and the disclosure requirements to which issuers of securities are subject. Topics include initial public offerings, secondary offerings, crowdsourcing, angel funding, regulatory enforcement, insider trading and Texas Blue Sky laws.

BUAD 4321. Advanced Business Project Design and Presentation. 3 Hours.
Students deepen their expertise in strategic business communication as it relates to design and delivery. Students combine theoretical frameworks and practical application to create sophisticated communication strategies and projects; topics may include, but are not limited to, personal professional branding, podcasting, and training materials. Students apply interpersonal skills necessary for leading, managing, and collaborating effectively in professional environments.
Prerequisite: BUAD 2321 or 60 credit hours.

BUAD 4325. Negotiation in Business. 3 Hours.
The focus of this course is effective business negotiation. Students plan and execute negotiations in and outside the classroom. The course includes an overview of theoretical and tactical skills used to make professional business negotiations, and other elements that are essential for managing and leading in the business environment.
Prerequisite: None.

BUAD 4335. Intercultural Business Communication. 3 Hours.
This course prepares students for the complex leadership roles and communication tasks they will encounter in an increasingly multicultural, global work environment. The course familiarizes students with the cultural impacts on global business, managing culturally diverse work forces, transitions, relocations, diversity and performance; and explores cultural specifics of various countries.

BUAD 4340. International Business Law. 3 Hours.
An overview of the international legal environment from a commercial and entrepreneurial perspective. This course examines the implications of international laws on foreign investment, intellectual property, sales contracts, money and banking, financing of enterprises, labor regulation and hiring, taxation, and dispute settlement.

BUAD 4345. Entrepreneurship II - Growth. 3 Hours.
This course covers the growth and harvest/exit phases of an entrepreneurial business. It focuses on the challenges faced by such businesses as they move beyond startup. Students learn how to create value by growing a profitable business, and how to harvest the value through an appropriate exit strategy.
Prerequisite: BUAD 3345.

BUAD 4348. Entrepreneurship III - Cases. 3 Hours.
Designed for the aspiring entrepreneur or for those who are curious as to how wealth is created in a free market economy, this course provides a practical experience of how to evaluate business opportunities, how ventures are started with little or no capital, how wealth is realized, and how to develop innovative entrepreneurial skills and planning techniques to minimize the cost of experience. By the end of the course, students develop their own Personal Entrepreneurs Plan useful in focusing the direction of their personal careers. Course Equivalents: BUAD 3336
Prerequisite: BUAD 3345.

BUAD 4389. Internship. 3 Hours.
A course designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit. The course may be repeated one time for a maximum of 6 hours.

Business Analysis (BANA)

BANA 2372. Business Analysis. 3 Hours. [TCCN: BUSI 2305]
An introduction to the use of business statistics. Topics include: data visualization, descriptive statistics, probability, discrete and continuous distributions, statistical modeling, sampling distributions, and statistical inference.
Prerequisite: MATH 1314 or MATH 1324 or MATH 1410 or MATH 1420.

BANA 3363. Inter Business Analysis. 3 Hours.
This course is a continuation of BANA 2372 and is designed to introduce the use of statistics as a business tool in the face of incomplete knowledge. Students will learn the following topics in this course: estimation, hypothesis testing, analysis of variance, goodness-of-fit measures, correlation, simple and multiple regression.
Prerequisite: BANA 2372 or MATH 1342.

BANA 4080. Independent Study. 3 Hours.
The credit in this course varies according to the work performed. The student may pursue special studies for which a special course is not organized. Variable Credit (1 to 3).
Prerequisite: Departmental approval.

BANA 4365. Introduction To Business Forecasting & Economics. 3 Hours.
In this course, students will apply statistical methods for business and economic forecasting and for hypothesis testing, estimation, and analyzing economic data. Course Equivalents: ECON 4365
Prerequisite: 42 completed hours and ECON 2301 and ECON 2302 and BANA 3363 or MATH/STAT 3379.

BANA 4373. Advanced Business Analytics for Economics and Business. 3 Hours.
Students learn how to analyze business data using advanced statistical methods, tools and software. Topics include data preparation, data visualization, and deployment of automated analytics pipelines using the appropriate computer software.
Prerequisite: BANA 2372 or MATH 1342.

Career and Technology (CATM)

CATM 4360. Work-Based Mentorship. 3 Hours.
Designed to provide students with the opportunity to gain specialized work-based experiences. Credit 1-9. May be repeated or taken concurrently to a maximum of 9 hours.

Chemistry (CHEM)

CHEM 1105. Chemistry in Context Lab. 1 Hour. [TCCN: CHEM 1105]
Laboratory for CHEM 1305. Concurrent enrollment in CHEM 1305 is recommended.

CHEM 1305. Applying Chemistry to Society. 3 Hours. [TCCN: CHEM 1305]
Chemical phenomena, concepts and principles are explored within the context of the role of science and technology in society. A life-centered approach rather than a subject-centered one has been employed in the development of course curriculum. This course is specifically designed to satisfy the natural science core requirement of students who are not specializing in science. Concurrent enrollment in CHEM 1105 is recommended.

CHEM 1406. Inorganic & Environmental Chemistry. 4 Hours. [TCCN: CHEM 1406]
The elements and their compounds are considered from a non-technical standpoint with emphasis placed on more familiar materials. Two-hour laboratory. This course is for non-science majors. Course Equivalents: CHEM 1306 .

CHEM 1407. Introduction to Organic and Biochemistry. 4 Hours. [TCCN: CHEM 1407]
An orientation in organic chemistry is given in the first part of the course to allow treatment of the chemistry of nutrition and other biochemical aspects given in the last part. Two-hour laboratory. This course is for non-science majors. Course Equivalents: CHEM 1307
Prerequisite: CHEM 1406, CHEM 1411, or completion of a high school chemistry course.

CHEM 1411. General Chemistry I. 4 Hours. [TCCN: CHEM 1411]
The following topics are studied: chemical changes and laws governing them; nomenclature; introduction to thermodynamics; reactions involving oxygen, hydrogen, acids, bases, and salts; ionization; metathesis; the periodic table, and atomic and molecular structure. Three-hour laboratory. This course is for chemistry and other science majors. Fall, Spring, Summer I. Course Equivalents: CHEM 1311
Prerequisite: Minimum grade of C in MATH 1410, MATH 1314, MATH 1324 or MATH 2384 or equivalent, or a minimum Math score of 23 on the ACT or 560 on the SAT (580 on new SAT) or equivalent.

CHEM 1412. General Chemistry II. 4 Hours. [TCCN: CHEM 1412]
Descriptive chemistry, gas laws, equilibria, kinetics, thermodynamics, electrochemistry, and oxidation-reduction reactions are presented. Three-hour laboratory. Prerequisite laboratory component must be a supervised in-person experience in a laboratory or student must obtain consent from department.. Course Equivalents: CHEM 1312
Prerequisite: A minimum grade of C in CHEM 1411.

CHEM 2123. Organic Chemistry I: Lab. 1 Hour. [TCCN: CHEM 2123]
Laboratory for CHEM 2323. Prerequisite laboratory components must be supervised in-person experiences in a laboratory or student must obtain consent of department.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, and prior credit for or concurrent enrollment in CHEM 2323.

CHEM 2125. Organic Chemistry II: Lab. 1 Hour. [TCCN: CHEM 2125]
Laboratory for CHEM 2325. Prerequisite laboratory components must be supervised in-person experiences in a laboratory or student must obtain consent of department..
Prerequisite: A minimum grade of C in CHEM 1411,CHEM 1412, CHEM 2123, CHEM 2323, and prior credit for or concurrent enrollment in CHEM 2325.

CHEM 2323. Organic Chemistry I: Lecture. 3 Hours. [TCCN: CHEM 2323]
A study of chemical bonding and structure of organic molecules is made. Functional group reactions and syntheses are emphasized. Reaction mechanisms, nomenclature and isomerism are studied. Fall, Spring, Summer I.
Prerequisite: A minimum grade of C in CHEM 1411 and CHEM 1412.

CHEM 2325. Organic Chemistry II: Lecture. 3 Hours. [TCCN: CHEM 2325]
The general plan of CHEM 2323 is continued.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, and prior credit for or concurrent enrollment in CHEM 2123.

CHEM 2401. Quantitative Analysis. 4 Hours.
The fundamental principles of quantitative analysis are emphasized. Acid-base, complexometric, precipitation, and redox titrations, solution equilibria and spectrophotometric analysis are discussed. Laboratory exercises involve all types of volumetric procedures and colorimetric analysis. Four-hour laboratory. Prerequisite laboratory components must be supervised in person experiences in a laboratory or student must obtain consent of department.
Prerequisite: A minimum grade of C in CHEM 1411, and CHEM 1412.

CHEM 3339. Biochemistry II. 3 Hours.
This course is a study of the bioenergetics associated with the metabolic pathways and processes. The metabolism of carbohydrates, lipids, proteins, and nucleic acids; the interrelationship of the metabolic pathways; and the regulation of metabolism are emphasized. Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125 and CHEM 3438.

CHEM 3361. Discoveries In Chemistry and Textiles. 3 Hours.
Attention will be focused on early scientists, the times in which they worked, important aspects of their efforts, and how their research continues to impact us today. Lectures will occur in the geographical areas where their work took place. Odd years during the Spring/Summer I break. Course Equivalents: FORS 3350
Prerequisite: CHEM 1406 or CHEM 1411, junior standing, and permission of the instructor.

CHEM 3367. Introduction to Inorganic Chemistry. 3 Hours.
General principles of inorganic chemistry are presented with a descriptive and practical rather than mathematical approach. Periodic relationships of elements and bonding, reactions and synthesis of inorganic compounds, acid-base chemistry are studied.
Prerequisite: A minimum grade of C in CHEM 1411 and CHEM 1412.

CHEM 3368. Environmental Chemistry. 3 Hours.
The chemical principles underlying the effects of air, water, and soil pollution are covered. Specific attention is paid to gas phase radical reactions, light absorption characteristics of atmospheric components, solution chemistry of fresh and salt water systems, and the mobility and chemistry of metal components of soil systems. Spring even years.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2401, CHEM 2323 and CHEM 2325 (or concurrent enrollment in CHEM 2325).

CHEM 3438. Biochemistry I. 4 Hours.
The chemistry and functions of carbohydrates, lipids, proteins, enzymes, nucleic acids and vitamins; enzyme kinetics; the processes of and mechanisms of digestion and absorption; and biological buffers are studied. Four-hour laboratory. Fall, Spring, Summer 10-week. Prerequisite laboratory components must be supervised in-person experiences in a laboratory or student must obtain consent of department.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, and prior credit or concurrent enrollment in CHEM 2125.

CHEM 4001. Directed Study In Chemistry. 1 Hour.
A directed study for undergraduates. This course is designed to allow independent study by advanced students. Instruction is on an individual basis. Variable Credit (1-3).
Prerequisite: A minimum grade of C in CHEM 2325 and approval of department chair.

CHEM 4088. Special Topics. 1-4 Hours.
Students explore an identified area of chemistry not covered in detail by other upper-level courses. This course may be repeated for credit if the topics vary. Variable Credit (1 to 4).
Prerequisite: Approval of department chair.

CHEM 4100. Chemical Literature Seminar. 1 Hour.
Methods of searching the literature in chemistry are presented. Emphasis is placed on the use of Chemical Abstracts, Beilstein, chemical patent literature, journals, and reference collections in the several specialties of chemistry.
Prerequisite: Prior credit or concurrent enrollment in CHEM 4440.

CHEM 4260. Advanced Integrated Laboratory. 2 Hours.
This course will involve in-depth experiments that require the use of sophisticated synthetic and analytical procedures in the areas of organic, inorganic or analytical chemistry. Prerequisite laboratory components, except CHEM 4448 which can be taken computational, must be supervised in-person experiences in a laboratory or a student must obtain consent of department.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 4448, and CHEM 4440.

CHEM 4327. Polymer Chemistry. 3 Hours.
Students examine reactions, synthesis, and mechanisms of polymerization processes as well as molecular weight distributions and structure/property relationships of polymers.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325 and CHEM 2125.

CHEM 4367. Advanced Inorganic Chemistry. 3 Hours.
Properties of atoms and ions, bonding theory and structure, acid-base theory, reactions of inorganic compounds, nonaqueous solvents, and coordination chemistry are studied. Emphasis is on the underlying theoretical concepts involved. Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 4448.

CHEM 4380. Forensic Chemistry. 3 Hours.
This is a one semester course focused on surveying important aspects of chemistry to forensic inquiries. Focus will be on the validity of results. Techniques and methods for selecting proper techniques to answer various questions will be discussed.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 4448, CHEM 4440 and CHEM 4367 (or concurrent enrollment in CHEM 4367); MATH 1420 and MATH 1430.

CHEM 4395. Undergraduate Research In Chemistry. 3 Hours.
This course acquaints the senior student with techniques used in simple research problems. Departmental approval required. Prerequisite laboratory components must be supervised in-person experiences in a laboratory or student must obtain consent of department.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, and CHEM 2125, or consent of the Chair of the Department of Chemistry.

CHEM 4440. Instrumental Analytical Chemistry. 4 Hours.
Spectrophotometry, separation techniques and mass spectrometry are discussed. Specific topics include the computer's use in the modern laboratory, ultraviolet and visible absorption, atomic absorption, flame emission, and inductively coupled plasma spectroscopy, infrared absorption, and gas and liquid chromatography. Instruments for these techniques are used in the laboratory work. Four-hour laboratory. Prerequisite lab components, except CHEM 4448 which can be computational, must be supervised in-person experiences in a laboratory or student must obtain consent of the department.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2325, CHEM 2401, and CHEM 4448.

CHEM 4441. Methods for Environmental and Industrial Analyses. 4 Hours.
Students covers the philosophy of modern instrumental methods used for environmental and industrial analyses. The topics to be covered may include quality control and quality assurance good laboratory practices, waste minimization and elimination, safe laboratory operation, ISO standards, EPA methodology, and statistical data analysis. Spring. Spring.
Prerequisite: A minimum grade of C in CHEM 2401, CHEM 2323 and CHEM 2325, and CHEM 3368.

CHEM 4442. Air Quality. 4 Hours.
An in-depth study of the sources of air pollution is made. Sampling procedures and the chemical analyses required for identification of pollutants are studied. Control methods for the restriction of air pollution are outlined. Four-hour laboratory. Spring odd years.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2401, CHEM 2323 and CHEM 2325.

CHEM 4443. Structural Spectroscopic Methods. 4 Hours.
This course is a survey of the spectroscopic and spectrometric methods for elucidation of structural information for chemical compounds with emphasis on the structural identification of unknowns. The methods of ultraviolet-visible spectrophotometry, Fourier-transform infrared spectroscopy, mass spectrometry, and both one- and two-dimensional nuclear magnetic resonance spectroscopy will be covered. Their relative strengths, complementary nature, and utility will be discussed. The focus will be the determination of chemical structures by spectroscopic/spectrometric methods. Spring even years. Spring even years.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125.

CHEM 4448. Physical Chemistry I. 4 Hours.
The foundations of thermodynamics and spectroscopic methods (radio-frequency, microwave, infrared, Raman, UV-visible, and X-ray) are developed from first principles with an atomistic point of view. Four-hour laboratory. Prerequisite lab components must be supervised in-person experiences in a laboratory or student must obtain consent of department.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, MATH 1420, MATH 1430 and one year of physics.

CHEM 4449. Physical Chemistry II. 4 Hours.
The developments of thermochemistry, phase diagrams, equilibria, and kinetics are traced from the statistical mechanics of quantum states to the macroscopic observations of thermodynamics. Four-hour laboratory. Prerequisite lab components, except CHEM 4448 which can be computational, must be supervised in-person lab experiences in a laboratory or student must obtain consent from department.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 4448.

Clarinet (CLAR)

CLAR 1101. Secondary Performances-Clarinet. 1 Hour.
Students study techniques and musicality related to clarinet in weekly individualized private instruction. Students admitted as a Clarinet primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

CLAR 1201. Individual Performances - Clarinet. 2 Hours.
The course consists of individualized private instruction on the clarinet. Instruction focuses on technique and musicality. Students will also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

CLAR 3201. Individual Performances - Clarinet. 2 Hours.
The course consists of advanced individualized private instruction on the clarinet. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

CLAR 3202. Applied Clarinet with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the clarinet. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Student's must have instructor permission.

Communication Studies (COMS)

COMS 1361. Public Speaking. 3 Hours. [TCCN: SPCH 1315]
Students apply the research, composition, organization, and delivery of informative and persuasive speeches for various purposes and occasions. Topics may include strategies for reducing speaker apprehension and audience analysis.

COMS 2331. Introduction - Communication Theory & Research. 3 Hours.
Students study theories and research in the field of communication with an emphasis on interpersonal and family communication. Students prepare reviews of literature as well as scholarly abstracts.

COMS 2382. Communication for Business & the Professions. 3 Hours. [TCCN: SPCH 1321]
Students examine communication theories and research with the goal of developing skills in settings such as interviewing, group decision-making, speech preparation, and presentation. Topics may include interpersonal communication, leadership strategies, listening, and non-verbal communication. Not for COMS majors or minors. Non-Minors only. Non-Specializations only.
Prerequisite: Non-Majors only.

COMS 2386. Interpersonal Communication. 3 Hours. [TCCN: SPCH 1318]
Students examine theory and research in one-to-one communication in relationships. Topics may include perception, listening, conflict management, and the development and maintenance of relationships.

COMS 3330. Communication in Sport. 3 Hours.
Students analyze the field of sport communication research. Students explore sport issues across various communication contexts. Students apply theory and research-based approaches to effectively communicate sport-related issues. Students also examine ethical considerations and the role of sport in culture.

COMS 3340. Communication, Culture, and Technology. 3 Hours.
Students examine how computers mediate communication issues, such as interpersonal relationships, social networking, information literacy, political agendas, and entertainment. Course Equivalents: COMS 2393 .

COMS 3341. Digital Communication Literacy. 3 Hours.
Students analyze strategies of self-presentation and impression management and apply theory and research-based approaches to effectively communicate messages through various social media platforms. Students gain practical knowledge in creating communication content for various audiences. Students implement these strategies on their own social media platforms as they learn to become more literate information consumers.

COMS 3350. Communication and Pop Culture. 3 Hours.
Students identify messages and meanings contained in popular culture, and examine how messages from music, television, films, celebrities, and advertising reflect and create social norms.

COMS 3360. Interpreting Visual Images. 3 Hours.
Students examine messages found in visual communication and analyze visual messages using theoretical constructs. Topics may include the persuasive impact of those visual messages.

COMS 3365. Humor in Communication. 3 Hours.
Students examine how humor functions across a variety of contexts, including interpersonal, organizational, public, and political. In the process, students apply theories and research about humor in communication.
Prerequisite: Junior standing or consent of instructor.

COMS 3370. Intercultural Communication. 3 Hours.
Students analyze the theory, research, and practice of communicating within and across cultures with an emphasis on application to the student's own intercultural communication. Topics may include a comparison of various cultures, culture shock, racism, and prejudice.

COMS 3371. Conflict, Negotiation, and Resolution. 3 Hours.
Students investigate the complexities of conflict in order to understand forces that make conflict challenging and to develop skills for examining and managing conflict more effectively in a variety of close relationship contexts.

COMS 3374. Persuasion. 3 Hours.
Students assess the principles of attitude and behavior change as they apply to the speaker, political campaigns, and social movements. Course Equivalents: COMS 3382 .

COMS 3375. Strategic Organizational Communication. 3 Hours.
Students analyze the impact of human communication technology on organizations of all types, including political, social, religious, and educational institutions. In the process, students may examine how communication technologies shape organizations, channel power, manage crisis, establish leadership, and redefine privacy and freedom of expression. Course Equivalents: COMS 3390
Prerequisite: Sophomore Standing.

COMS 3379. Freedom of Speech and Civic Communication. 3 Hours.
Students examine a broad range of free speech issues, including blasphemy, defamation, popular culture, political speech, privacy, public forums, symbolic speech, threats, and restrictions on free speech. The course is structured to expand the knowledge of the student about freedom of speech and to enable them to be more engaged citizens in their communities. To this end, the course not only covers the areas that the right to free speech encompasses, it also explores instances in which freedom of speech protections do not apply.

COMS 3383. Small Group Communication. 3 Hours.
Students examine the theories and practices of interaction, leadership, and problem-solving in formal and informal small group settings.

COMS 3385. Community Applied Communication. 3 Hours.
Students improve research skills, critical thinking, leadership, individual and group communication skills. This is achieved through lecture and community interaction. Students work together to examine their community for need, investigate how to meet that need through the lens of established organizations, and present their findings. This is a capstone course. Course Equivalents: COMS 2385 .

COMS 3386. Learning to Listen: A Key Communication Competency. 3 Hours.
Students examine significance and complexity of the many different types of listening across various social, professional, and interpersonal contexts. Students use theory and research-based approaches to tackle issues surrounding listening as a cognitive process, a social and relational skill, and professional competency. They also examine emerging areas, such as mediated listening in the digital age.
Prerequisite: COMS 2386.

COMS 3391. Interpersonal Health Communication. 3 Hours.
Students examine patient and physician communication skills. Topics may include communicating social support for those with serious illnesses, survivorship, identity issues, media influence, and e-health across a wide range of communication contexts. Course Equivalents: COMS 3372 .

COMS 3392. Risk Communication. 3 Hours.
Students illustrate the history of risk communication research. Students examine how to effectively communicate risks across various contexts including interpersonal communication, organizational communication, and mass communication. Students apply theory and research-based approaches to effectively communicate risks including health risks, environmental risks, and technological risks.

COMS 3393. Environmental Communication. 3 Hours.
Students learn theory, research and practice with regard to environment and communication from both international and multi-disciplinary perspectives. Students will also learn how to identify environmental issues and use appropriate communication strategies to respond to/solve those issues. The course uses a lecture/discussion format. Course Equivalents: COMS 3373 .

COMS 4091. Independent Study in Communication Studies. 1-3 Hours.
Students pursue particular problems or issues beyond the limits of current course offerings. Students may receive Academic Distinction credit for this course. See Academic Distinction Program in this catalog. May be repeated for credit. Senior standing. Variable Credit (1 to 3). Senior standing. Course Equivalents: coms 4391
Prerequisite: 12 hours COMS completed and approval of the Chair.

COMS 4365. Nonverbal Communication. 3 Hours.
Students study systems of nonverbal communication and their effective use. Topics may include body language, vocalic, facial, and spatial communication. Students apply current theory and research in nonverbal communication to their own communication.

COMS 4366. Deceptive Communication. 3 Hours.
Students assess lying and other forms of deception in a variety of communication contexts, including interpersonal, public, and legal. Students gain empirical, ethical, and critical understandings of deception including their own deception and that of others.

COMS 4378. Internship In Communication Studies. 3 Hours.
Students apply skills and theories learned in the classroom to on-the-job situations. Internships may occur with public relations and governmental agencies, businesses, and non-profit organizations.
Prerequisite: At least junior standing, 12 COMS hours completed, and approval of the Chair.

COMS 4381. Communication Theory. 3 Hours.
Students analyze and apply contemporary theories of communication.
Prerequisite: COMS 2331 and 6 hours COMS completed.

COMS 4386. Family Communication. 3 Hours.
Students examine interpersonal communication within families. Topics may include family conflict, family structure, culture and the family, and family stories.
Prerequisite: COMS 2386.

COMS 4387. Relationship Communication. 3 Hours.
Students explore communication as it occurs in various types of personal relationships with a special focus on romantic relationships and close friendships. Topics may include long-distance and mediated relationship forms. Students work to enhance the quality of communication and satisfaction within relationships.
Prerequisite: Sophomore standing.

COMS 4388. The Dark Side of Relational Communication. 3 Hours.
Students investigate the functionality and morality of relational communication in relationships. Students explore the dark and light side of communication behaviors frequently used in relationships. Students gain an ethical understanding and the ability to evaluate communication in various relationships analytically.
Prerequisite: COMS 2331 and COMS 2386.

COMS 4392. Seminar In Communication Studies. 3 Hours.
Students explore new and special interest areas of communication scholarship offered on a rotating basis.
Prerequisite: Sophomore standing.

Composition (COMP)

COMP 1101. Applied Composition I. 1 Hour.
The course is designed primarily for the music major interested in developing their compositional skills. It presumes no former background in composition but requires good musical training.
Prerequisite: Students must have instructor permission.

COMP 3301. Applied Composition II. 3 Hours.
The course is designed primarily for the music major interested in developing their compositional skills. The course presumes a previous exposure to composition and presents the necessary tools to expand and refine the student's skills.

Computer Science (COSC)

COSC 1436. Programming Fundamentals I. 4 Hours. [TCCN: COSC 1436]
This course is an introduction to programming. Topics include fundamental concepts of computer programming and software development methodology, including data types, control structures, functions, arrays, and the mechanics of programming running, testing, and debugging. The development of procedures and the writing and testing of programs to implement them are emphasized. This course includes a 2-hour lab-based component. This course assumes a general familiarity with computers.
Prerequisite: Grade of C or better in MATH 1410, MATH 1314, or MATH 1316, basic keyboarding, and PC skills.

COSC 1437. Programming Fundamentals II. 4 Hours. [TCCN: COSC 1437]
This course is a continuation of COSC 1436 and focuses on design, implementation, and re-usability of computer programs with abstract data types. Fundamentals of object-oriented design and programming paradigms are also emphasized. Course contents may include basic abstract data types such as List, Stack, and Queue, introduction to algorithm analysis, searching and sorting, graph-related abstract data types. A two-hour lab-based component is required for students to practice computer programming in more than one programming environment.
Prerequisite: COSC 1436.

COSC 2327. Introduction to Computer Networks. 3 Hours.
Students are introduced to installation, usage, and management of computer hardware and operating systems for business. Topics may include scripting, macros, intelligent agents. Installation and management of networks, the Internet, and communications software is covered.
Prerequisite: COSC 1436.

COSC 2329. Computer Organization & Machine Language. 3 Hours. [TCCN: COSC 2425]
Students are introduced to instruction set architectures, emphasizing central processor organization and operations. Specific topics may include data representations, register architectures, addressing modes, the fetch/ execute cycle; interrupts, subprogram calls, I/O services, digital logic gates and basic Boolean algebra, and sequential and combinational circuits. Programs are assigned in a representative assembly language to explore these areas.
Prerequisite: COSC 1437 with a C or better (may be taken concurrently).

COSC 2340. Special Topics in Computer Science. 3 Hours.
Topics and courses are selected to suit individual needs of students. The course may be repeated for additional credit as long a different topic is covered.
Prerequisite: COSC 1437.

COSC 2347. Special Topics/Programming. 3 Hours.
Students engage in an in-depth study of a programming language used to implement information systems. Real time components, visual techniques, and artificial intelligence are utilized as appropriate. This course may be repeated for credit with the approval of the undergraduate advisor. A different language must be covered to receive approval for repeat credit.
Prerequisite: COSC 1437.

COSC 3312. Numerical Methods. 3 Hours.
Student study the concepts underlying the use of the computer for interpolation, approximations, solutions of equations and the solution of both linear and nonlinear systems equations. Mathematical software and/or user written programs are utilized. Also offered as MATH 3394.
Prerequisite: COSC 1436 and MATH 1430 or consent of instructor.

COSC 3318. Data Base Management Systems. 3 Hours.
Students explore the design of information systems using database software and query language/programming interfaces. Data warehouse concepts are introduced. Legacy systems, LAN and distributed systems based systems are used to give the student hands-on experience in systems development.
Prerequisite: COSC 1437 .

COSC 3319. Data Structures and Algorithms. 3 Hours.
Student are introduced to such topics as orthogonal lists, strings, arrays, linked lists, multilinked structures, indexed and direct files, and generalized data management and database management systems.
Prerequisite: COSC 1437.

COSC 3321. Digital System Design. 3 Hours.
This course is an introduction to Boolean Algebra and graph theory with emphasis on their applications in the design of digital computer software and hardware. Logic systems are designed and analyzed.

COSC 3327. Computer Architecture. 3 Hours.
COSC 3327. Computer Architecture. 3 Hours.This course is a continuation of COSC 2329, exploring computer organization and architectures in more depth and breadth. Specific topics may include milestones in the philosophy of computer design, Karnaugh maps for circuit minimization, memory types and organization, caching, pipelining, micro-architectures, parallel architectures, I/O devices, buses and bus protocols. Throughout the course, physical and performance considerations are stressed along with the hardware's interaction with operating systems.
Prerequisite: COSC 2329.

COSC 3331. Human-Computer Interaction. 3 Hours.
Students are provided a comprehensive introduction to the principles and techniques of human-computer interaction. Students examine the event-driven model through the development of applications utilizing graphical design environments and the use of rapid application prototyping to explore a variety of techniques for HCI, particularly in relation to mobile and other non-traditional devices.
Prerequisite: COSC 1437.

COSC 3332. Game Programming and Design. 3 Hours.
(Prior Course ID: CS 378); This course allows those students who desire to learn more about game programming to apply what they have learned in their foundation courses in that area. Gaming is a compelling way to motivate students to learn challenging technical concepts such as programming, software engineering, algorithms, and project management.
Prerequisite: COSC 2329.

COSC 3337. Information Systems Design & Management. 3 Hours.
This is a course in the design and implementation of large-scale file and persistent object-based information systems. Client/server systems are covered.
Prerequisite: COSC 2347.

COSC 4050. Independent Study. 1-3 Hours.
Students conduct individual research on specific topics that are not covered in the current Computer Science undergraduate curriculum. Each student will participate in comprehensive research activities with a faculty member who is specialized in the student's interest area. Therefore, the course content will vary based upon the topic that both the student and the mentoring faculty member choose. Students' performance will be evaluated based on their research progress and output. Variable Credit (1 to 3).
Prerequisite: Consent of the instructor.

COSC 4149. Seminar in Computer Science. 1 Hour.
Students learn fundamental ideas of emerging technologies and their real-life applications in ever-evolving software and hardware computing environments. The content of the course may vary from semester to semester, but will include current trends, issues, and professional skills.
Prerequisite: Senior standing in Computer Science.

COSC 4314. Data Mining. 3 Hours.
Students are provided an introduction to the newly-emerging field of data mining. Data mining is concerned with the automatic extraction of novel information and knowledge from large amounts of data in practical real world problems. Topics may will include fundamental concepts, data preparation and feature selection, standard data mining algorithms (including but not limited to association, classification, clustering, and prediction), and applications and evaluation of data mining techniques.
Prerequisite: COSC 3318 and COSC 3319.

COSC 4316. Compiler Design & Construction. 3 Hours.
Students study the design and implementation of assemblers, interpreters and compilers. Topics may include symbol tables, lexical scanning, syntactic analysis, object code generation and storage allocation. Programming assignments will involve implementation of functional components of a translator.
Prerequisite: COSC 2329 and COSC 3319.

COSC 4318. Advanced Language Concepts. 3 Hours.
Students study programming languages which support the Object-Oriented Programming (OOP) paradigm. Programming assignments are used to illustrate the features and weaknesses of the language and to develop the student's proficiency in the use of OOP technology.
Prerequisite: 3 advanced hours of COSC.

COSC 4319. Software Engineering. 3 Hours.
This course is an introduction to formal methods of specifying, designing, implementing and testing software for large programming projects. Methods of estimating and predicting reliability are discussed.
Prerequisite: 6 advanced hours of COSC and COSC 3318.

COSC 4320. System Modeling and Simulation. 3 Hours.
This course is an introduction to modeling and simulation for analysis of computer software and hardware. Application of simulation analysis to design and development of computer software and systems, including modeling of computer and software components are discussed. Design, coding and use of discrete event simulation software will be covered.
Prerequisite: 6 advanced hours COSC and MATH 3379.

COSC 4326. Network Theory. 3 Hours.
Students examine the theoretical basis for data communication together with an examination of the structures and protocols associated with the control of error, congestion and routing. The course may include an examination of network administration fundamentals and socket programming in client-server applications.
Prerequisite: 6 advanced hours of COSC.

COSC 4327. Computer Operating Systems. 3 Hours.
This course is concerned with software organization of computer systems. It is intended to bring together the concepts and techniques of programming languages, data structures and computer organization by considering their role in the design of general computer systems. The problems which arise in multi-accessing, multiprogramming, and multiprocessing are emphasized.
Prerequisite: COSC 3327 and COSC 3319.

COSC 4332. Computer Graphics. 3 Hours.
Students are introduced to graphical APIis used in developing graphical user interfaces and multimedia applications. Topics covered are selected from the PHIGS, Windows, Presentation Manager, X-Windows, digital video and other appropriate technologies.
Prerequisite: 6 advanced hours of COSC.

COSC 4337. Digital Signal Processing. 3 Hours.
Students examine the nature of signal processing and its application to real-world applications such as speech synthesis, video processing, genomics, and biomedical signal processing, and distributed sensor networks. Students address theoretical, algorithmic and practical issues.
Prerequisite: COSC 3327.

COSC 4340. Special Topics in Computer Science. 3 Hours.
Topics of general interest are offered on a timely basis. Previous topics include Cognitive Computing, Embedded Linux Systems, Visual Graphics/ Component Systems. advanced COSC and senior standing.
Prerequisite: 6 hrs.

COSC 4347. Embedded System Design and Internet of Things. 3 Hours.
Students learn theoretical concepts and hands-on skills for the design and implementation of embedded and IoT (Internet of Things) systems using embedded hardware development tools. Topics may include hardware integration, real-time operating systems, serial and wireless communication, digital/analog input and output, registers and memory management systems, embedded system programming techniques, and designing IoT systems.

Prerequisite: COSC 3327.

COSC 4349. Professionalism and Ethics. 3 Hours.
Students examine the nature, need and value of well-formed ethical constructs within the digital forensics profession. Included in this course is a discussion, through case studies, of the nature of professionalism, personal and professional codes of ethics and conduct, and the professional handling of ethical and moral conflict. Students also explore the role of the professional in public policy and the awareness of consequences of ethical dissent and whistle blowing.
Prerequisite: Junior standing.

Computer Science Technology (CSTE)

CSTE 1330. Introduction to Computers. 3 Hours.
This is a computer literacy course. Basic computing concepts are presented. Assignments provide a hands-on experience in using microcomputer applications. Multimedia and the Internet are introduced. May not be taken for credit toward a CS major or minor. This course may be taken as a classroom based course or as an online course.

CSTE 1331. Visual Computing. 3 Hours.
This course is an introduction to programming using the visual paradigm, aimed at students with little or no background in programming. The core notions of problem solving through programming are introduced, following an object-oriented approach to visual programming.

CSTE 1333. Digital Life. 3 Hours.
Students address the various roles of computational technology in society that both underpin and shape economic, scientific, political, leisure, and social activity. Emphasis is placed on the importance of digital literacy, digital citizenship, digital creativity, and ethics and law.

CSTE 2330. Multimedia Technologies. 3 Hours.
Students examine the use of modern multimedia tools in the production of professional communication materials. Students specifically examine multi-platform image, sound and video editing tools, CD/DVD, wiki and podcast production tools as well as supporting web-publishing tools and scripting techniques for the purpose of enriching the professional communication environment. May not be taken for credit toward a COSC major or minor.

CSTE 3330. Web Technologies. 3 Hours.
Students explore the concepts and techniques associated with the development of modern dynamic Web sites. Topics covered may include web design fundamentals, modern web development tools, style sheets, markup languages, accessibility, session management, interactive communication and security. In addition, students examine a number of Web 2.0 technologies that support blog, wiki and social networking applications.
Prerequisite: CSTE 2330.

CSTE 4330. Web Server Technologies. 3 Hours.
Students explore web server technologies associated with the server components, web scripts, web forms, and dynamic interactive features.
Prerequisite: CSTE 3330.

Construction Management (ETCM)

ETCM 1363. Wood Frame Construction. 3 Hours. [TCCN: ARCH 2312]
This course is a study of materials and methods of wood frame construction found in residential and commercial construction focusing on aspects of load-bearing structural design elements. Instruction is given in the correct use of hand tools and machine tools, job safety, job-site controls, material handling, equipment, and application. Laboratory experiences include design and construction of a wood frame structure with elements typically found in residential construction. (2-2). Course Equivalents: ITEC 1363.

ETCM 2350. Surveying. 3 Hours. [TCCN: ENGR 1307]
Students learn fundamentals of surveying methodologies and apply them to construction and civil engineering projects. Course topics may include theory of errors in observations, distance measurements, leveling methods, angles, azimuths and bearings, total station methods, and traverse computations.
Prerequisite: ETCM 1363.

ETCM 2367. Metal Building Systems. 3 Hours.
This course is a study of materials and methods of construction found in metal building systems. Instruction is given in the correct use of hand and power tools, job safety, job-site controls, material handling, equipment and application. Aspects of load design calculations, fastener use, metal coatings, and erection equipment are studied. Laboratory instruction includes basic metal working processes (welding, sheet-metal, foundry) used in metal frame construction. Course Equivalents: ETCM 3367, ETDD 2367, ITEC 1367
Prerequisite: ETCM 1363.

ETCM 2396. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new construction management and technology topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010 and ETCM 1363.

ETCM 3320. Mechanical, Electrical & Plumbing (MEP) Systems in Buildings. 3 Hours.
Students design and implement typical Mechanical, Electrical and Plumbing (MEP) systems that are part of residential and commercial construction. Topics include design criteria, installation, and operation methods used to conserve both energy and water in buildings.
Prerequisite: ETEE 1340 and Sophomore Standing.

ETCM 3353. Construction Project Management. 3 Hours.
Students practice the management principles and techniques associated with managing construction projects. Students apply the most proven methods in construction project management as well as new techniques emerging from the current construction industry and recent research. Lecture and Lab.
Prerequisite: ETCM 2367.

ETCM 3368. Concrete/Masonry Construction. 3 Hours.
This course is a study of materials and methods of construction found in concrete and masonry structures. Concrete chemistry, mixing and placement equipment, testing, finishing techniques, reinforcing, formwork, specification, and job-site safety implementing these materials are studied. Laboratory experiences include batch sampling and testing and small group projects implementing concrete and masonry methods and materials. Sophomore standing. Course Equivalents: ITEC 3368
Prerequisite: (MATH 1314 or MATH 1316 or MATH 1420) and ETCM 1363.

ETCM 3370. Construction Technology II. 3 Hours.
This course focuses on non-structural construction typically found in cabinetry, trim, and furniture construction. Included is the study of woods, synthetic materials, hardware, and wood joinery. Instruction is given in the correct use of hand and machine tools, job safety, job-site controls, and material specification. Lab experiences include designing, planning, construction, and finishing of a piece of cabinetwork or furniture. Sophomore standing. Course Equivalents: ITEC 3370
Prerequisite: ETCM 1363.

ETCM 3371. Civil Design Technology. 3 Hours.
This course will consist of drafting techniques and requirements necessary for civil engineering offices. Topics include survey drafting, map drafting, topos, site plans, subdivision plats, profile drawings and other related topics. Sophomore standing. Course Equivalents: ITEC 3371
Prerequisite: ETDD 1361 or ETCM 2350.

ETCM 3372. Construction Drafting. 3 Hours.
This course is a study of drafting techniques and requirements for the commercial and heavy construction industries and will add to the skill set of construction management students. Topics will include foundation design, commercial building design, structural detail, and premanufactured metal constructed building design. Demonstrations, student inquiry, in-class problem solving, and three dimensional (3D) modeling will be utilized. Course Equivalents: ITEC 3372
Prerequisite: ETDD 1361 or ETCM 1363 or INDS 2387.

ETCM 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of construction management skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETCM 4310. Construction Cost Estimating. 3 Hours.
Students learn the procedures for estimating construction costs of residential and light commercial projects. Topics may include the preparation of quantity surveys (take-offs), organizing cost information for contract documents, and the development of material, labor, and equipment costs. Lectures cover the skills and background to perform construction estimating, and students gain practical experience in estimating costs for material, labor, and equipment in labs.
Prerequisite: ETCM 3353 or ETEC 4350.

ETCM 4315. Construction Scheduling. 3 Hours.
Students learn the concepts used in planning and scheduling of construction projects, including development of a project plan, progress reports, and deliverables. Students acquire the skills and background to perform construction scheduling, and they gain practical and software experience in using schedule networks, critical path methods, resource allocation, and project control techniques in labs.
Prerequisite: ETCM 3370 or ETCM 4370.

ETCM 4330. Construction Equipment & Procedures. 3 Hours.
This course is designed to provide a general knowledge of construction applications and procedures. Emphasis is on site preparation, foundations, and concrete. Emphasis will be placed on the responsibility of general or prime contractors and specialty contractors. Students will be taught cost estimation and procedures for bidding. Course Equivalents: ITEC 4330
Prerequisite: ETEC 1010 and (ETCM 3371 or ETCM 3372).

ETCM 4368. Building Materials. 3 Hours.
The study of the materials used in building and construction projects including properties, mechanics, and life-cycle impact. Emphasis is placed on chemical, physical, and electrical properties of materials with specific attention to soil, asphalt, steel, and sustainability. Course Equivalents: ITEC 4368

Prerequisite: ETCM 2367 and (ETCM 3368 or ETCM 4370).

ETCM 4369. Special Topic. 3 Hours.
Individual study in specialized areas of Construction Management. To be directed and approved by the Industrial Technology advisor. This course is designed to be a multitopic course. The student can take the course under various special topics being offered.

ETCM 4370. Construction Plans & Documents. 3 Hours.
This course is designed to give a clear insight into the particular problems of construction and proper construction procedures. The site selection, availability of services, grading, subsurface explorations to determine foundation needs, construction organization, and other activities of construction are presented in logical units. Course Equivalents: ITEC 4370
Prerequisite: ETCM 3372 and Junior standing.

ETCM 4371. Building Information Modeling. 3 Hours.
This course focuses on current issues in the construction industry from a Building Information Modeling standpoint. This approach incorporates the integrated project delivery method, productivity measurement, digital modeling, and construction process modeling for construction scheduling.
Prerequisite: ETCM 4315 or ETCM 3372.

Counselor Education (COUN)

COUN 2332. Career Development. 3 Hours.
This course will help students explore a lifelong plan for career development. Students will use real life assessments to determine aptitudes, interests and values related to careers. Students will learn how to utilize on campus and internet resources to develop resumes, portfolios and practice job interviewing skills. Activities in this course are designed to give students an advantage for entering the job market. Course Equivalents: COUN 3322 .

COUN 3321. Introduction to the Helping Relationship. 3 Hours.
This course will provide an introduction to the helping relationship, especially as it relates to educational and community settings. Students will be challenged to consider their motivations, needs, and goals related to the art of helping. Students will engage in a service learning project as part of exploring the nature of the helping relationship. Students will also be introduced to basic attitudes, dispositions and skills needed for helping relationships and counseling. Course Equivalents: 2331 .

COUN 3322. Career Development. 3 Hours.
This course will help students explore a lifelong plan for career development. Students will use real life assessments to determine aptitudes, interests and values related to careers. Students will learn how to utilize on campus and internet resources to develop resumes, portfolios and practice job interviewing skills. Activities in this course are designed to give students an advantage for entering the job market. Course Equivalents: COUN 2332 .

COUN 3331. Introduction to Principles Of Counseling. 3 Hours.
This course will provide students with an overview of the counseling profession to include professional issues, ethics, history, credentialing, professional associations, and roles of counselors in various settings. Emphasis is placed on the development of professional identity, the value of the counseling relationship, and theory. Students will choose from several activities allowing them to recognize the value of counseling in human service activities.

COUN 3332. Therapeutic Play Skills. 3 Hours.
Participants will learn the basic principles that guide child-centered play sessions via didactic and experiential activities. The course will help participants understand how child-centered play sessions facilitate the recognition and expression of feelings in children, as well as strengthen problem-solving skills, pro-social skills, and engagement with parents. Students will role-play facilitative skills including recognizing and responding to children's feelings, play session limit setting, and building children's self-esteem. Students will have opportunities to observe live and videotaped child-centered play sessions.

COUN 4088. Special Topics in Counseling. 3 Hours.

COUN 4089. Independent Study in Counseling. 1-3 Hours.
This independent study course will allow the undergraduate student to conduct in-depth study in a specific topic area related to counseling and human services. Topics will vary as needs demand. May be repeated as scheduled topics vary. Course Equivalents: COUN 4387 .

COUN 4379. Wellness Counseling. 3 Hours.
This course is an introduction to the history of wellness and the contributions of various cultures to the wellness concept. Several models and theories for the practice of counseling are addressed. Behavior change models and current research related to specific wellness domains will be explored with a focus for working with clients from a wellness perspective.

Criminal Justice (CRIJ)

CRIJ 2361. Introduction To The Criminal Justice System. 3 Hours. [TCCN: CRIJ 1301]
(SH Prior Course ID: CJ 261); An introductory course designed to familiarize students with the facets of the criminal justice system, including the processing of offenders, punishment and its alternatives, and the future of the criminal justice system.

CRIJ 2362. Criminology. 3 Hours. [TCCN: CRIJ 1307]
(SH Prior Course ID: CJ 262); An introductory course designed to familiarize students with the scientific field of criminology. Students cover the nature and extent of criminal behavior; past and present theories for crime and delinquency; and the evaluation of prevention, control, and treatment programs.

CRIJ 2364. Fundamentals Of Criminal Law. 3 Hours. [TCCN: CRIJ 1310]
(SH Prior Course ID: CJ 264); A course in substantive criminal law which includes the definition of law, definition of crime, general principles of criminal responsibility, elements of major crimes, punishments, conditions or circumstances which may excuse criminal responsibility, the court system, and the basic concepts of criminal law with an emphasis on the penal law of the State of Texas.

CRIJ 2365. Correctional Systems and Practice. 3 Hours. [TCCN: CRIJ 2313]
(SH Prior Course ID: CJ 265); Students are provided with an overview and evaluation of contemporary correctional systems and a discussion of recent research concerning correctional institutions and various field services.

CRIJ 2367. Police Systems & Practices. 3 Hours. [TCCN: CRIJ 2328]
(SH Prior Course ID: CJ 267); Students cover the philosophy and history of law enforcement in the United States; limitations imposed on law enforcement in a democratic society in accordance with the United States Constitution; agencies of law enforcement; and the role and place of law enforcement in the justice process.

CRIJ 2368. Criminal Investigation. 3 Hours.
Students are provided with a brief overview of the science behind crime detection and a detailed discussion of techniques used for case management and documentation, the concept of proof, the impact of emergent technology on the investigative process, interacting with victims and witnesses, and interviewing suspects. A particular emphasis is placed on the investigation of particular types of crimes including homicides, sex offenses, child abuse, and hate crimes. .
Prerequisite: CRIJ 2367 or consent of instructor.

CRIJ 2394. Courts And Criminal Procedure. 3 Hours.
(SH Prior Course ID: CJ 294); Students examine procedural requirements for judicial processing of criminal offenders, including concepts of evidence sufficiency, standards of proof, due process, and constitutional safeguards.

CRIJ 3338. Introduction to Police Personnel Management. 3 Hours.
Students will gain a foundational understanding of recruitment, selection, training, performance evaluation, discipline, and labor relations within law enforcement agencies. Students will explore theories and application practices for future roles in police administration and management.

CRIJ 3339. History of the Criminal Justice System. 3 Hours.
(SH Prior Course ID: CJ 339); Students explore the major social, economic, legal and political events that have contributed to the formation of the criminal justice system in the United States. Emphasis is on the common roots of the different components of the present system.
Prerequisite: CRIJ 2361 .

CRIJ 3340. Gender and Crime. 3 Hours.
Students investigate definitions of gender, gender roles, and how gender impacts offending, victimization, and criminal justice processing. The influence of gender on working in the criminal justice system as professionals is evaluated. In addition, criminological theories are evaluated in light of gender and the relationship between gender and the criminal justice system.
Prerequisite: CRIJ 2361 and CRIJ 2362.

CRIJ 3361. Comparative Criminal Justice Systems. 3 Hours.
(SH Prior Course ID: CJ 361); Students study criminal justice in societies other than the United States, including, but not limited to, the European, Asian, and African regions. Emphasis is on the uncommon roots of criminal justice in these regions and the effectiveness of such systems in responding to criminal behavior.
Prerequisite: CRIJ 2361 and CRIJ 2362.

CRIJ 3362. White Collar Crime. 3 Hours.
(SH Prior Course ID: CJ 362); Students analyze the ideas and perspectives that are dominant in the fields of criminal justice and criminology on white-collar crime. Topics such as organizational crime, occupational crime, legislation aimed at white collar crime, law enforcement, causes of white-collar crime, and possible forms of intervention are discussed.
Prerequisite: CRIJ 2361 and CRIJ 2362.

CRIJ 3363. Violent Offenders. 3 Hours.
(SH Prior Course ID: CJ 363); Students examine the psychological and behavioral characteristics of the most violent criminal types. The course will cover many topics of criminality, violence, and their causes and will introduce students to the behavioral and psychological issues relevant for understanding, assessing, and managing abnormal criminal behavior. Topics may include sanity, psychopathy, criminal profiling, mental disorders, gangs, serial killers, stalking, women who kill, threat assessment, and/or collective violence.
Prerequisite: CRIJ 2361 or CRIJ 2362 .

CRIJ 3364. Special Offenders and Special Needs. 3 Hours.
(SH Prior Course ID: CJ 364); Students engage in the identification and study of special or unusual offenders with special or unusual needs. Special offenders include those who are rarely covered in standard criminology classes, such as wildlife poachers, serial killers, computer hackers, substance abusers, and business and professional scam artists.
Prerequisite: CRIJ 2361 and CRIJ 2362 .

CRIJ 3368. Understanding Sexual Offending. 3 Hours.
(SH Prior Course ID: CJ 368); Students are provided with an overview of the sexual offender. The origins and various motivations for sexual offending are explored as well as the treatment strategies and their relative effectiveness with different offender groups. Various approaches to community supervision are examined as are controversial issues such as castration of sex offenders.
Prerequisite: CRIJ 2361 or CRIJ 2362 .

CRIJ 3370. Human Trafficking. 3 Hours.
Students learn the history of human trafficking, anti-trafficking enforcement efforts, theories of human trafficking, and legislation. Students gain a comprehensive understanding of the issue of human trafficking and responses by the criminal justice system to prevent and monitor this form of crime.

CRIJ 3372. Foundations of Crime Analysis. 3 Hours.
Students learn about the discipline of crime analysis and how this approach is commonly used in local, state, and federal law enforcement. Students gain an understanding of the foundations of crime analysis as it relates to the profession and the role analysts play in criminal investigations and surveillance.

CRIJ 3374. Community Corrections. 3 Hours.
Students learn techniques and procedures utilized in the supervision of adults and juveniles on probation and parole, and other residents of community-based corrections facilities. Students also learn about the practical problems confronting probation, parole, and other community-based corrections officers. Prerequisites CRIJ 2361 and CRIJ 2365.

CRIJ 3378. Introduction To Methods Of Research. 3 Hours.
(SH Prior Course ID: CJ 378); Students are introduced to the scientific approach to understanding the social world, the relation between theory and research, research design, and data collection. This course is designed to help students gain an understanding of the research process involved in examining criminal justice issues.

CRIJ 3390. Contemporary Issues in Police Management. 3 Hours.
Students gain an understanding of complex management issues for law enforcement agencies. Through case studies and lectures, students explore key issues such as leadership, organizational culture, community relations, diversity, technology, and accountability. Students develop the critical thinking skills necessary to understand and address the complexities of managing modern police organizations.

CRIJ 3394. Global Terrorism and Homeland Security. 3 Hours.
(SH Prior Course ID: CJ 394); Students are provided with an overview of the field of terrorism. Using a multi-dimensional approach that draws from international relations, law, and police strategies, an emphasis is placed on research and analysis. Students also gain the ability to examine and scrutinize international strategies aimed at reducing terrorist incidents.
Prerequisite: CRIJ 2361 or CRIJ 2362 .

CRIJ 3396. Juvenile Delinquency and Juvenile Justice. 3 Hours.
(SH Prior Course ID: CJ 396); Students cover the nature and extent of delinquency, explanatory models and theories for delinquent behavior, the juvenile justice system, juvenile court practices and procedures, and the role of the police officer and correctional officer when dealing with juvenile youths.

CRIJ 4073. Undergraduate Internship in Criminal Justice. 1-12 Hours.
Students complete a minimum of three months in an approved criminal justice or social agency setting taken preferably between junior and senior years. The course is designed to provide the student with an opportunity to apply academic learning in practical situations. See the College's Internship Coordinator for details about this program. Variable Credit (1 to 12). Course Equivalents: CRIJ 4373 .

CRIJ 4330. Law And Society. 3 Hours.
(SH Prior Course ID: CJ 430); Students explore the nature, functions, limitations and objectives of law; civil procedure; civil law and selected social problems; for example, abortion and euthanasia; the civil courts; the grand jury and petit jury; torts; civil liability for police and correctional officers; and family law.

CRIJ 4332. Legal Aspects Of Corrections. 3 Hours.
(SH Prior Course ID: CJ 432); Students explore legal problems from conviction to release; pre-sentence investigations, sentencing, probation and parole; incarceration; loss and restoration of civil rights with an emphasis on practical legal problems confronting the probation and parole office and the correctional administrator.

CRIJ 4336. Understanding Human Behavior. 3 Hours.
Students examine underlying influences that affect human behavior, including biological, cultural, psychological, and social factors. Students will explore a wide range of influences that contribute to personality development and social behaviors commonly observed in the criminal justice system.

CRIJ 4360. Crime And The Media. 3 Hours.
(Prior SH course id: CJ 460); Students survey the connections between the mass media, crime, and criminal justice; explore how the criminal justice system, criminals, and crime are portrayed in film, TV drama, and news media; and examine how the media reflect our collective perceptions of crime, violence, and victimization as well as shape attitudes toward crime.

CRIJ 4362. Substance Use And Abuse. 3 Hours.
(SH Prior Course ID: CJ 462); Students engage in the description, classification, and analysis of the causes and correlates of substance use problems.

CRIJ 4363. Cybercrime. 3 Hours.
A seminar in which students focus on topics related to cybercrime, including legal, enforcement, behavioral, and social factors that influence its perpetration, prevention, and prosecution.
Prerequisite: Junior/Senior standing .

CRIJ 4365. Professionalism and Ethics In Criminal Justice. 3 Hours.
(SH Prior Course ID: CJ 465); Students study the theories and practices in areas of legality, morality, values, and ethics as they pertain to criminal justice. Topics may include police corruption, brutality, and methods of dealing with such practices as well as the concept of profession and professional conduct.

CRIJ 4367. Correctional Strategies. 3 Hours.
(SH Prior Course ID: CJ 467); This course examines treatment options in both institutional and field corrections settings. There is a focus on special populations, including mental health populations and their treatment, aging in prison, women, HIV populations, and issues surrounding race and ethnicity.
Prerequisite: Junior Standing and CRIJ 2365 .

CRIJ 4368. Global Organized Crime. 3 Hours.
(SH Prior Course ID: CJ 468); Students examine the evolution and development of global and transnational organized crime. Various theories that explain the existence of organized crime around the world are examined in addition to a survey of how global organized crime groups have adapted to the 21st century, barriers to international police cooperation, the impact of failed states, civil war and corruption, and the modern relationship between organized crime and terrorists groups.

CRIJ 4374. Philosophy of Crime & Justice. 3 Hours.
Students examine foundations of the American criminal justice system, considering questions such as: is there a moral justification of punishment; what basic principles guide law enforcement in practice; how did these principles come to be in place; and how do they connect to the moral and political ideals on which the country was founded? Students critically engage with philosophical, legal, sociological, and historical resources.

CRIJ 4376. Independent Studies in Criminal Justice. 1-3 Hours.
(SH Prior Course ID: CJ 476); This course is designed for advanced criminal justice and criminology students who are capable of rigorous independent study. Registration upon approval of the appropriate Assistant Dean of the College of Criminal Justice and the instructor directing the course. Credit to be arranged.

CRIJ 4377. Special Topics In Criminal Justice. 3 Hours.
This course is designed to give advanced undergraduate students academic flexibility. May be repeated for credit.

CRIJ 4382. Social Deviance. 3 Hours.
(SH Prior Course ID: CJ 482); Students study the psychological and sociological aspects of socially deviant behavior and theoretical overviews and implications for social control and social policy.

CRIJ 4384. Police Strategies. 3 Hours.
Students analyze police policies with particular attention to the current major problem areas from the point of view of both the administrator and the line operations officer with an integration of established scientific knowledge with practical police experience in the various areas of police functioning.
Prerequisite: CRIJ 2367 .

CRIJ 4385. Criminal Justice and Social Diversity. 3 Hours.
(SH Prior Course ID: CJ 485); Students will explore how social factors shape the study of crime and the administration of justice. Attention is given to examining patterns of criminal offending, victimization, and criminal justice processing across different population groups, as well as possible explanations for these patterns. Students will gain a comprehensive understanding of individual experiences at various stages of the justice system (e.g., policing, courts, corrections).
Prerequisite: Senior standing .

CRIJ 4386. Problem Analysis In Criminal Justice. 3 Hours.
(SH Prior Course ID: CJ 486); This course serves as a capstone for the Criminal Justice undergraduate students. Students use skills and knowledge from prior courses to address challenges facing the criminal justice system with a focus placed on application of research skills and analytic techniques to address these issues. Students conduct basic research to recommend criminal justice policy.
Prerequisite: Senior Standing, CRIJ 3378 and STAT 3379 or equivalent .

CRIJ 4387. Multiculturalism in Criminal Justice. 3 Hours.
Students explore the goals, benefits, and challenges of multiculturalism in the criminal justice system. Topics may include the experiences of marginalized groups including African Americans, Latinx Americans, Asian Americans, Native Americans, women, the LGBT community, the elderly, and youth within the criminal justice system. Emphasis is also placed on multiculturalism within the workforce. Training tools and policy recommendations are offered and discussed.

CRIJ 4394. Constitutional Issues In Law Enforcement. 3 Hours.
Students focus on the intersection of the U.S. Constitution and the criminal justice system. Laws that govern policing are primarily based upon the United States Constitution, United States Supreme Court decisions, and statutes passed by the United States Congress and state legislatures. Major decisions of the U.S. Supreme Court serve as the core resource, including those addressing Fourth, Eighth, and Fourteenth Amendment governmental authority issues. Although a focus is placed on these resources, the material is presented in a format and in a language designed to meet the needs and interests of non-lawyers, while preserving the meaning and content of the law as interpreted by the courts. Emphasis is placed on development of analytical reasoning skills through the case study method.

Dance (DANC)

DANC 1101. Dance Workshop. 1 Hour.
This is a practical workshop in support of the Department of Dance concerts and activities. Duties include costume construction, backstage and front of house support, and audio/video recording and dubbing.

DANC 1201. Pilates-Based Conditioning for Dance. 2 Hours.
This is an introductory course in Pilates-based body conditioning. Designed by Joseph Pilates in the early 20th Century, Pilates is a movement-based exercise method that stretches, strengthens, and balances the body. Much of its popularity today is due to its regenerative effects on the body-its ability to encompass and connect the mind, body, and spirit with result of health, wholeness and a highly refined overall movement system.

DANC 1204. Folk Dance Forms. 2 Hours.
Students study dances indigenous to Europe, Mexico and the United States are in relation to their cultural derivations. Special consideration is given to dance as a cultural and recreational activity.

DANC 1206. Theater Dance Forms. 2 Hours. [TCCN: DANC 1206]
Specific theatrical dance forms such as ballet, jazz, modern dance, and Hip Hop are studied in specially dedicated sections.

DANC 1221. Introduction to Ballet Dance Technique. 2 Hours. [TCCN: DANC 1241]
Students are introduced to the theory and practice of ballet. No previous experience in dance is required.

DANC 1222. Introduction to Modern Dance Technique. 2 Hours. [TCCN: DANC 1245]
Students are introduced to concepts of modern dance and gives students practice in self expression through movement. No prior experience in dance is required.

DANC 1223. Jazz Dance Technique I. 2 Hours. [TCCN: DANC 1247]
Students are introduced to the dance vocabulary and movement of jazz technique. No prior dance experience is required.

DANC 1228. Tap Dance Technique I. 2 Hours. [TCCN: DANC 1110]
Students are introduced to tap technique and practiced. No prior dance experience is expected.

DANC 1229. Hip Hop Dance Technique. 2 Hours.
This course provides students practice in forms of hip hop dancing. No previous experience is required.

DANC 1233. Intermediate Ballet. 2 Hours.
Students pursue classical ballet technique with an emphasis on technical development and extended movement sequences. Students explore movement, musicality, and artistry through the embodied study of classical ballet and its history.
Prerequisite: Dance Experience, Departmental Approval.

DANC 1234. Intermediate Modern Dance. 2 Hours.
Students pursue modern dance technique with an emphasis on improving anatomical awareness and developing integrated movement patterns often associated with contemporary dance. Students explore floor work and dance as a form of expression.
Prerequisite: Dance Experience, Departmental Approval.

DANC 1333. Ballet Dance Technique I. 3 Hours. [TCCN: DANC 1241]
This course establishes the fundamentals of ballet, including alignment, technique and vocabulary. May be repeated for credit, max of 6 credits.

DANC 1334. Modern Dance Technique I. 3 Hours. [TCCN: DANC 1245]
This course establishes the fundamental of modern dance technique. May be repeated for credit, max of 6 credits.

DANC 1372. Dance and Popular Culture. 3 Hours.
This course is a video survey of the vast range of theatrical dance that has taken place in the twentieth century. Forms and styles covered include ballet, modern/postmodern, jazz, musical theater, tap, contemporary dance, and dance for music video.

DANC 2223. Jazz Dance Technique II. 2 Hours. [TCCN: DANC 2247]
This course expands on the basic dance vocabulary and movements offered in DNC 1223, Introduction to Jazz. Students must have prior experience in jazz dance.

DANC 2228. Tap Dance Technique II. 2 Hours.
This course builds on the basics of tap offered in DNC 1228, Tap Dance Technique I. Students must have prior experience in tap dancing.

DANC 2331. Pilates Body Conditioning II. 3 Hours.
The focus of the course is to develop a solid personal matwork practice at all levels from pre-Pilates through intermediate work, with a strong application of the principles of the Pilates method of body conditioning. Experiences with classical Pilates apparatus will supplement and enrich the matwork exercises.
Prerequisite: DANC 1201.

DANC 2332. Social And Folk Dance Forms. 3 Hours. [TCCN: DANC 1128]
Social and folk dance forms of ethnic and social significance are studied and performed in relation to their cultural derivations and historical perspectives and their use in period theatrical/concert production. Special emphasis is placed upon the importance of ethnic art forms to contemporary society.

DANC 2333. Ballet Dance Technique II. 3 Hours. [TCCN: DANC 2241]
This is a ballet technique class designed for students with fundamental ballet technique. May be repeated for credit, max of 12 credits. Open by audition only.

DANC 2334. Modern Dance Technique II. 3 Hours. [TCCN: DANC 2245]
This is a modern dance technique class designed for students with fundamental dance technique. Students who are not dance majors must have permission of instructor or department chair to register. May be repeated for credit, max 12 credits.

DANC 2373. World Dance: Exploring Cultures. 3 Hours.
Students experience dances from different world regions. Although comparisons between cultures will become evident, the primary objective is to identify and study cultural characteristics.

DANC 2376. Choreography I. 3 Hours. [TCCN: DANC 1301]
Students learn to analyze the various components of design and to create basic dance studies that demonstrate understanding of dance as a craft and as an art.
Prerequisite: A minimum of intermediate standing in ballet or modern dance, or permission of the instructor is required to register for this course.

DANC 3301. Pilates Teaching Methods I. 3 Hours.
Students become familiar with the foundational principles and concepts behind the Pilates Method of body conditioning in preparation for teaching its matwork component. Course work will address breath, core activation, neutral spine, and lumbo-pelvic stability as they apply to the proper execution of beginning to intermediate-level exercises. An essential aspect of the course is observation of professional Pilates teachers in practice, with both individual clients and in a group instruction setting. Course requirements include regular class meetings, a minimum of 15 documented hours of teacher observation, a journal of observations, and written and practical evaluation.
Prerequisite: DANC 1201, DANC 2331, and either DANC 3374 or BIOL 2401.

DANC 3333. Ballet Dance Technique III. 3 Hours.
This is an intermediate level ballet technique class that presumes substantial ballet training. Open by audition only. May be repeated for credit, max of 12 credits.

DANC 3334. Modern Dance Technique III. 3 Hours.
This is an intermediate level modern dance technique class that presumes substantial modern dance training. Open by audition only. May be repeated for credit, max of 12 credits.

DANC 3335. Jazz Dance Technique III. 3 Hours.
This course is designed for the dancer with sound foundations in jazz technique. The course focus is on developing technical skills, increasing strength and flexibility, and developing performance quality in jazz dance. May be repeated for credit, max of 9 credits. Open by audition only.

DANC 3336. Improvisation & Partnering. 3 Hours.
Through the study of improvisational and partnering techniques, students explore a wide range of movement and develop spontaneous problem-solving skills. Additionally, students learn proper body mechanics that will assist them in various partnering techniques.

DANC 3372. Dance History. 3 Hours.
A chronological survey is made of the history of dance from the 1700's to the modern period. Special emphasis is placed on the philosophic relationship of dance to the various cultural epochs. Course Equivalents: DANC 2372 .

DANC 3374. Principles Of Dance Technique. 3 Hours.
Students are provided the student with an overview of the movement system emphasizing the subjective control experience in dance. Methods of tuning the system, including body therapies, conditioning regimes, body awareness techniques, and dance training. These methods are practiced, reviewed, and compared.

DANC 3376. Choreography II. 3 Hours.
This course builds on skills developed in DANC 2376, Choreography I. Students develop duet and small group compositional studies.
Prerequisite: DANC 2376 and/or permission of the instructor.

DANC 4092. Special Topic. 1-3 Hours.
Opportunities are offered for thorough study of a variety of topics which students may choose in dance. Such topics as Historical Period Dance, Ethno-cultural Studies, Choreographic Projects, et cetera are illustrative. Course Equivalents: DANC 4392 .

DANC 4093. Independent Study. 1-3 Hours.
Opportunities are offered for individual study of an approved problem in dance. May be repeated for credit. Credit 1-3. Course Equivalents: DANC 4393 .

DANC 4301. Pilates Teaching Methods II. 3 Hours.
Students gain a greater level of expertise in the Pilates Method of body conditioning as they prepare to teach its mat work component. Using the foundational concepts and principles learned in DANC 3301, they will further explore the integration of the musculo-skeletal system in movement by way of the Advanced and Super-Advanced exercises. In addition, they will address the conduct of a group instruction setting over a period of time to become familiar with the process of bringing students to a more advanced level in their individual practice. An important aspect of the course is the actual teaching of both private lessons and group classes to gain practical experience as teachers. Course requirements include regular class meetings, a minimum of 35 documented hours of student teaching, and written and practical evaluation.
Prerequisite: DANC 1201, DANC 2331, DANC 3301, and either DANC 3374 or BIOL 2401.

DANC 4330. Repertory. 3 Hours.
The student is involved in rehearsals in which dance works by faculty and guest artists, as well as the great masters of choreography, are staged or reconstructed in preparation for major dance program performances. Students are provided experience in the rehearsal process, culminating in performance. Students cast in productions experience the rehearsal and creation process of dance repertory, culminating in performance in a formal dance concert.

DANC 4333. Ballet Dance Technique IV. 3 Hours.
This is a pre-professional level of ballet technique in which dancers develop a high degree of technical ability and expressive range. Open by audition only. May be repeated for credit, max of 12 credits.
Prerequisite: DANC 3333 or permission of the instructor.

DANC 4334. Modern Dance Technique IV. 3 Hours.
This is a pre-professional level of modern dance technique in which dancers develop a high degree of technical ability and expressive range in the modern dance idiom. Open by audition only. May be repeated for credit, max of 12 credits.
Prerequisite: DANC 3334 or permission of the instructor.

DANC 4335. Jazz Dance Technique IV. 3 Hours.
This is a pre-professional level of jazz dance technique in which dancers develop a high degree of technical ability and expressive range. Open by audition only. May be taken for repeat credit, max of 9 credits.

DANC 4372. Dance Criticism & Analysis. 3 Hours.
Students develop critical skills, applying multiple lenses, and approaches that are needed for the analysis of choreography and choreographers. Exploring the political and social contexts that inform the work broaden students' understandings of external influences on creative expression. Emphasis is on writing informed, insightful analyses of the form, content, context, and effectiveness of choreographic works.

DANC 4376. Choreography III. 3 Hours.
This course is designed to help the student develop extended solo, duet, and ensemble works for performance, expanding on compositional tools from DANC 2376, Choreography I, and DANC 3376, Choreography II.
Prerequisite: DANC 3376 and/or permission of the instructor.

DANC 4377. Senior Studio. 3 Hours.
In this capstone choreography course, students develop skills needed to create and produce dance. These skills include conducting an audition, coordinating a rehearsal schedule, directing and managing dancers through the creative process, and communicating effectively with costumers and lighting designers. The culminating efforts of this class result in a fully-produced dance concert in which each student completes and presents the choreography developed during the course.
Prerequisite: DANC 3376.

DANC 4384. Dance Pedagogy. 3 Hours.
This course acquaints students in dance with methods for teaching ballet and modern dance technique. Students gain theoretical and practical experience, focusing on the use of anatomically-correct and systematic approaches to developing dance skills. Class structure, design of exercises, effective communication with students, and selection of appropriate musical accompaniment are examined. Course Equivalents: DANC 4374 .

DANC 4388. Dance and Technology. 3 Hours.
This course is a continuation of the choreography series and enables students to effectively pursue technology in their creative endeavors. Students are introduced to methods of integrating media technologies into the dancer's experience in the areas of dance graphics, sound design for dance, and dance video. Students learn camera, computer, and software skills that will facilitate their ability to expand creative expression as well as enhance their ability to package and promote themselves as artists in a variety of media.
Prerequisite: DANC 2376 and DANC 3376.

DANC 4389. Career Resources in Dance. 3 Hours.
This course is designed for the graduating dance student who is preparing to enter the job market. Emphasis is placed on resume building, the job search, and the audition process. Students create and package a portfolio that includes a resume, letter of application, video resume, an audition solo, and an artistic statement.

Deaf Studies and Sign Language (DSSL)

DSSL 3310. Deaf Culture. 3 Hours.
Students explore the influence of Deaf Culture on society as a whole. Students situate Deaf Culture within diversity of cultures through an in-depth discussion of historical, cultural, linguistic, political, and geographical aspects of the Deaf Community.

DSSL 3320. Linguistic Structures of American Sign Language (ASL). 3 Hours.
Students use linguistic principles to examine the structure of American Sign Language, including phonology, morphology, semantics, syntax, and pragmatics. The students integrate ASL skills with linguistic concepts to describe language phenomena within the Deaf Community. Instruction is in ASL.
Prerequisite: Grade of C or better in SGNL 1401, SGNL 1402, SGNL 2311, and SGNL 2312.

Design and Development (ETDD)

ETDD 1361. Engineering Graphics. 3 Hours. [TCCN: ENGR 1304]
This is an introductory engineering drawing course. Topics covered may include orthographic projection, isometric drawing, geometric construction, sectioning, and dimensioning using drafting equipment, freehand sketching, and two dimensional renderings with CAD software. Course Equivalents: ITEC 1361 .

ETDD 1390. Introduction to Computer Aided Drafting. 3 Hours. [TCCN: ENGR 1304]
This course is intended to provide the student with an understanding of Computer-Aided Drafting Principles. Students will utilize the software command structure of a CAD program to complete a number of typical and practical application exercises. Course Equivalents: ITEC 1390 .

ETDD 2363. Architectural Design. 3 Hours. [TCCN: ARCH 2603]
This course consists of the development of a set of plans and specifications for a small residence. Course Equivalents: ITEC 2363, ETDD 2363
Prerequisite: ETDD 1390 or ETDD 1361 or ETCM 1363 or FACS 1360 or FACS 2364.

ETDD 2396. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new engineering design development topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010 and ETDD 1361.

ETDD 3310. Product Design & Development. 3 Hours.
This course explores the processes by which products are brought to the market place. Processes are examined with special emphasis placed on manufacturing, prototyping, patent and trademark procedures, industrial design, problem solving, and decision-making. In addition, creating and working in cross-functional teams to produce products for consumer use is addressed. Course Equivalents: ITEC 3310
Prerequisite: Sophomore standing, ETDD 1390 or ETDD 1361.

ETDD 3366. Intro to Virtual and Augmented Reality. 3 Hours.
Students learn and apply the foundational skill set for Virtual Reality (VR) and Augmented Reality (AR) development and design. Topics include 3D modeling, C# Scripting, and publication for Android or iOS mobile devices.

ETDD 3379. Industrial Design & Drafting. 3 Hours.
This course includes the illustration and preparation of drawings and the related symbolism used in electrical and fluid fields. Related and required piping and fitting fundamentals are also covered. Course Equivalents: ITEC 3379
Prerequisite: ETDD 1390 or ETDD 1361 and Sophomore standing.

ETDD 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of design and development skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETDD 4339. Advanced Computer-Aided Drafting and Modeling. 3 Hours.
This is a computer applications course for design and drafting and introduces students to the techniques used to produce technical models/drawings. Students will learn drafting practices and how to apply them using computer-aided software. Prior knowledge of drafting software and/or prior experience of working with computers is advantageous, but not required/expected. Students will produce technical drawings using various computer design and drafting practices. Concepts of 2D drawings will be covered along with an introduction to three dimensional parametric modeling.
The intent is to develop fundamental knowledge and skills that are conceptually applicable to any computer-aided design (CAD) system. Course Equivalents: ITEC 4339
Prerequisite: ETDD 1361 and Junior standing.

ETDD 4369. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new engineering design development topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010, ETDD 1361, and Junior Standing.

ETDD 4380. Material Hand & Plant Layout. 3 Hours.
This course is the study of the basic requirements needed to develop the most efficient layouts of equipment and of operating and service facilities whether in manufacturing plants, warehouses, or other industrial or business applications. Special emphasis is on the necessary coordination between plant layout, materials handling, work simplification and production planning, and operation control. Junior standing. Course Equivalents: ITEC 4380
Prerequisite: ETDD 1361.

ETDD 4388. 3-Dimensional Parametric Design. 3 Hours.
This is a computer applications course for parametric design and drafting, in which the computer is used to produce parametric technical models/drawings. Students will learn drafting practices and how to apply them using computer aided software. Students will further be able to produce technical drawings using 3D CAD packages. Concepts of creating 2D drawings will be covered along with introduction to 3D parametric modeling. The course will enable the student to use Autodesk Inventor in advanced parametric design/drafting and other courses. Course Equivalents: ITEC 4388
Prerequisite: ETDD 1390 or ETDD 1361.

Digital Forensics (DFSC)

DFSC 1316. Digital Forensics & Information Assurance Fundamentals I. 3 Hours.
Students are introduced to the fundamentals of Digital Forensics (DF) and Information Assurance (IA) technologies. Topics may include basics of DF and IA, numbering systems, logic, Boolean operations, network packets, OSI layers, TCP/IP protocols, basic scripting and compiled languages, and basics of hardware and file system forensics.

DFSC 2316. Digital Forensics & Information Assurance Fundamentals II. 3 Hours.
Students focus on Digital Forensics (DF) and Information Assurance (IA) processes and methodologies. Topics may include preparation of the investigator, proper acquisition of evidence, authentication, analyzing data without modifying it, reporting findings, and risk assessment of evidence. In addition, current methodologies, such as cryptography and network security, Internet programming, smartphone forensics, network forensics, and cloud forensics are discussed.
Prerequisite: DFSC 1316.

DFSC 2320. Hardware Forensics. 3 Hours.
Students explore techniques in the duplication, recovery, and restoration of digital evidence, which includes hard disks, floppy drives, CD formats, DVD formats, zip drives, mobile phones, PDA's smart cards, memory technologies, and other devices capable of storing digital information.
Prerequisite: DFSC 1316.

DFSC 3316. Cryptography and Network Security. 3 Hours.
Students study both the theory and practice of cryptography and computer and network security, and focus on the security aspects of the web and the internet. Students survey cryptographic tools used to provide security, such as shared key encryption, public key encryption, key exchange, and digital signature algorithms. In addition, students review how these tools are used in the current Internet protocols and network security applications, including wireless network protocols. System security issues, such as viruses, worms, intrusion, and firewalls are also discussed.
Prerequisite: DFSC 1316.

DFSC 3320. Digital Forensics Tools. 3 Hours.
Students explore tools for the recovery of information on protected or damaged hardware for the purpose of providing evidence of misuse or abuse of systems. Topics also may include the chain of evidence, protocols for data recovery, cryptographic analysis, password recovery, the bypassing of specific target operating systems, and obtaining data from digital devices that have been damaged or destroyed.
Prerequisite: DFSC 1316.

DFSC 4050. Independent Study. 1-3 Hours.
Students conduct individual research on specific topics that are not covered in the current Digital Forensics undergraduate curriculum. Students participate in comprehensive research activities with a faculty member who is specialized in the students' interest area. Therefore, the course content varies based upon the topic that both the students and the mentoring faculty member choose. Students' performance will be evaluated based on their research progress and output. Variable Credit (1 to 3).
Prerequisite: Consent of the instructor.

DFSC 4317. Information Security. 3 Hours.
Students are provided an introduction to basic security needs. Course topics may include, but are not limited to individuals vs. government privacy issues, federal encryption standards, the different layers of security currently available, the practical application of user level and system level cryptography, and strategies for evaluation and selection of security methods.
Prerequisite: DFSC 2316.

DFSC 4318. Malware. 3 Hours.
Students focus on analyzing, dissecting, debugging, and reverse-engineering malicious software. Topics may include conventional and advanced static and dynamic analysis of malware in a virtual environment using disassemblers, debuggers, packers/unpackers and virtual machine tools.
Prerequisite: DFSC 1316.

DFSC 4319. Principles of Data Quality. 3 Hours.
Student are provided a rigorous exploration of data quality concepts, assessment techniques, and problems in organizational information systems, databases, and data warehouses. A combination of state-of-the-art literature review and hands-on projects is used to develop knowledge and ability to analyze and clean the data.
Prerequisite: 6 advanced COSC/DFSC hours.

DFSC 4338. Cyber Warfare. 3 Hours.
Students examine the philosophies, targets, and tactics of organizations involved in the development of cyber offensive and defensive capabilities. Topics may include emerging cyber warfare trends and the role of the private sector and the U.S. government in identifying, protecting, detecting, responding to, and recovering from cyber warfare threats.
Prerequisite: DFSC 1316.

DFSC 4340. Special Topics In Digital Forensics. 3 Hours.
Topics of general interest are offered on a timely basis. Previous topics include DC3 Challenge.
Prerequisite: 6 advanced hours of DFSC and senior standing.

Early Childhood Education (ECHE)

ECHE 3128. Field Experience - Early Childhood Education. 1 Hour.
Students will practice behavior management techniques with children in public school pre-kindergarten or kindergarten classrooms. This course is taken concurrently with ECHE 3229.
Prerequisite: 60 hours.

ECHE 3229. Guidance Of Young Children. 2 Hours.
Classroom and behavior management techniques which are appropriate for young children will be presented with an emphasis on inductive discipline which leads to self-discipline.
Prerequisite: 60 hours.

ECHE 3301. Social Guidance - Young Child. 3 Hours.
Students study the theory, principles, and methods employed in the socialization, guidance, and management of children birth-3 years. The emphasis of the course is on promoting children's successful adjustment to multiple ecological systems to encourage the development of self-discipline and executive function. Ten hours of field experience required.

ECHE 3302. Early Childhood Education Theories. 3 Hours.
Students focus on philosophies of learning through examination of the cognitive, behavioral, and social learning theories relevant to early childhood education. Students examine the strengths and weaknesses of each theoretical perspective to gain an understanding of how they impact the early childhood learning environment and curriculum.

ECHE 3313. Early Childhood Cognition. 3 Hours.
This course is intended to provide a foundation for viewing the early years of life as a distinctly different period in the childís life. The early childhood view of the world is based on the child ís developing physical, cognitive, linguistic, and socio-emotional skills and processes. Focus will include an emphasis on the child, the family, and the environment in which the child lives. Course Equivalents: ECHE 2313 .

ECHE 3316. Assessment in Early Childhood. 3 Hours.
Students develop knowledge about a variety of assessment procedures appropriate for use with young children. Advantages and limitations of assessment techniques, including standardized test results, are examined. Observation techniques and authentic, classroom-based assessments are major areas of emphasis in the course. Ten hours of field experience required.

ECHE 3325. Creative Arts for Educators. 3 Hours.
In this course, students explore the underlying concepts of art, music, dramatic interpretation, theater, and dance and movement. Students learn to integrate these artistic expressions throughout the early childhood curriculum.

ECHE 3363. Working With Families in Diverse Communities. 3 Hours.
This course is an in-depth study of the relationships between families and schools in diverse communities. Topics addressed in this course include discussions of major theories that support partnerships with parents; models for parent, school, and community partnerships; home, school and community influences on children's lives; parenting styles; family dynamics; parent education strategies; communication with parents; and the rights and responsibilities of parents, children and teachers. Field experience with young children, their families, and the community will be required.
Prerequisite: 60 hours.

ECHE 4088. Special Topics in Early Childhood Education. 1-3 Hours.
This course is designed to permit individual students to study specific areas of interest and need. Course Equivalents: ECHE 4388
Prerequisite: Approval of Department Chair.

ECHE 4089. Independent Study in Early Childhood Ed. 1-3 Hours.

ECHE 4333. Developmentally Appropriate Programs for Young Children. 3 Hours.
An in-depth study will be made of developmentally appropriate practices in schools for young children. Appropriate curriculum and instruction, thematic unit development, and a study of the Texas Essential Knowledge and Skills are major areas of emphasis. Field experience is required.
Prerequisite: 60 hours.

ECHE 4343. Curriculum for Early Childhood. 3 Hours.
In this course, students analyze and practice developmentally appropriate pedagogy that strengthens the link between age appropriate, active, engaged learning with identified state standards for the early childhood classroom (preschool - kindergarten). Fifteen hours of field experience in preschool/kindergarten classrooms are required as part of this course.

ECHE 4349. Language and Literacy Development. 3 Hours.
Candidates will investigate language acquisition and early literacy experiences of children from birth through kindergarten. Special emphasis is given to the characteristics of early learning environments and the teacher's role in the development of language processes, early experiences with print, and integrating early language and literacy activities into experiences of young children.
Prerequisite: ECHE 3313.

ECHE 4350. Preschool Child Wellness. 3 Hours.
In this course candidates will identify and analyze principles of wellness in the early childhood setting. Topics include health and physical fitness, signs of neglect and abuse, educator legal and ethical responsibilities, and communication with parents regarding young children's well being.
Prerequisite: 60 hours.

ECHE 4373. Early Childhood Theory and Cognition. 3 Hours.
This course is a required course for the Bachelor of Arts in Applied Science in Early Care and Education. The class is designed for early childhood preschool and Head Start teachers who are not seeking Texas Teacher Certification. Topics include an emphasis on the young child's cognitive, physical, and social abilities as a foundation for planning appropriate classroom experiences.

ECHE 4399. Student Teaching in the Kindergarten Classroom. 3 Hours.
Approximately six to seven weeks of student teaching experience in a public pre-kindergarten or kindergarten is provided.
Prerequisite: Admission to Student Teaching Program.

Early Keyboard (EKBD)

EKBD 1101. Secondary Performances-Early Keyboard. 1 Hour.
Students study techniques and musicality related to early keyboard in weekly individualized private instruction. Students admitted as a Early Keyboard primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

EKBD 1201. Individual Performance-Early Keyboard. 2 Hours.
The course consists of individualized private instruction on early keyboard instruments, especially harpsichord and fortepiano. Instruction focuses on technique and musicality. Students also attend a weekly studio class that gives them the opportunity to perform for fellow students.
Prerequisite: Instructor approval.

EKBD 3201. Individual Performance-Early Keyboard. 2 Hours.
The advanced course consists of individualized private instruction on early keyboard instruments, especially harpsichord and fortepiano.Instruction focuses on technique and musicality. Students also attend a weekly studio class that gives them the opportunity to perform for fellow students.
Prerequisite: Student must have passed a sophmore barrier jury.

EKBD 3202. Early Keyboard with Junior Recital. 2 Hours.
The advanced course consists of individualized private instruction on early keyboard instruments, especially harpsichord and fortepiano. Instruction focuses on technique and musicality. Students also attend a weekly studio class that gives them the opportunity to perform for fellow students, and perform a culminating recital.
Prerequisite: Instructor approval.

Economics (ECON)

ECON 1100. Economics of Social Problems. 1 Hour.
This course will develop needed critical thinking skills by requiring students to analyze the distributional effects, equity, benefits/costs, and unintended consequences of policies. Students will learn the importance of becoming engaged citizens with an emphasis on efficiency and equity issues. The course will enhance student offerings by providing an additional option to complete the one hour elective in the Social and Behavioral Science component of the university core.

ECON 2300. Introduction To Economics. 3 Hours. [TCCN: ECON 1301]
This course is a combination of micro-economic and macro-economic principles. It is designed for those who are neither majors nor minors in economics but who would benefit from a one semester introduction to economic principles. No credit given for ECON 2300 if ECON 2301 or ECON 2302 has previously been completed.

ECON 2301. Principles Of Macroeconomics. 3 Hours. [TCCN: ECON 2301]
In this course, students will survey the following topics: the economic role of government, public finance and taxation, unemployment and inflation, national income theory, money and banking, economic fluctuations and growth, and international trade and finance.

ECON 2302. Principles Of Microeconomics. 3 Hours. [TCCN: ECON 2302]
In this course, students will survey basic economic principles including individual decision making, price theory, analysis of the firm, competition and monopoly, and the distribution of income.

ECON 3340. Economics and Business in the Global Economy. 3 Hours.
Students examine the foundations of the international business environment within the global environment. They explore the opportunities and challenges of doing business in the contemporary, ever-changing, and increasingly globalized world.

ECON 3341. Comparative Economics Systems. 3 Hours.
In this course, students will examine market oriented, free enterprise capitalism, and its development, compared with alternative economic system.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3344. Contemporary International Issues in Economics. 3 Hours.
In this course, students will survey current literature dealing with international trade and financial issues.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3351. Labor Economics. 3 Hours.
In this course, students will examine unemployment, wage theory, collective bargaining, labor legislation, and proposals for the solution of labor problems. The recent problems of labor are given special consideration.
Prerequisite: 42 completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3352. Energy and Environmental Economics. 3 Hours.
In this course, students will examine how human values, activities, and institutions affect the environment and how the tools of economics can be used to evaluate public policy alternatives designed to improve the quality of the environment.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3357. Intermediate Microeconomics. 3 Hours.
In this course, students will study the following topics: pricing and output policies of firms; resource pricing; and distribution under condition of perfect competition, monopoly, oligopoly, and monopolistic competition.
Prerequisite: ECON 2302 and BANA 2372 or MATH 1342.

ECON 3360. Behavioral Economics. 3 Hours.
Students use economic tools coupled with insights from other behavioral sciences to better describe and predict human behavior as it relates to economic decisions, and to generate improved policy prescriptions. Topics may include prospect theory, judgment biases, self-control, financial anomalies, and incentives.
Prerequisite: 42 hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3370. Economics of Business and Government. 3 Hours.
In this course, students will study the complex relationship between the business sector and the public sector in the United States and in the global marketplace. Topics will include the regulation of business in its various formats and the promotion of business nationally and internationally.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3372. Intermediate Macroeconomics. 3 Hours.
In this course, students will examine the following topics: national income concepts and measurements; the analysis of the factors influencing the level of national income, employment, price, and production; and applications to current problems.
Prerequisite: ECON 2301 and BANA 2372 or MATH 1342.

ECON 3373. Urban And Regional Economics. 3 Hours.
In this course, students will analyze issues of spatial economics, including why cities are formed, patterns of residential and business location, transportation problems, crime, poverty, and suburban sprawl.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3374. Economics of Public Finance and Public Policy. 3 Hours.
In this course, students will examine the function of government in the marketplace with emphasis on public goods, externalities, taxation, fiscal federalism, and cost-benefit analysis.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4080. Independent Study. 1-3 Hours.
Individual study arranged with a member of the Economics and International Business faculty. Conferences and written reports are typically required. A carefully prepared research paper concludes the course. This course may be taken for Academic Distinction Credit and can be used for internship credit. This course may be repeated. Variable Credit (1-3). Course Equivalents: ECON 4380
Prerequisite: 42 completed hours and departmental approval.

ECON 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Economics topics and concepts in a course setting. Variable credit (1-3). Course Equivalents: ECON 4385 .

ECON 4340. International Economics. 3 Hours.
In this course, students will survey a wide range of topics of international economics with emphasis on international trade theory and policy.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4348. Economic Development. 3 Hours.
In this course, students will examine the theoretical explanations and historical factors of economic development and underdevelopment, as well as analyze policies for accelerating development in third world countries.
Prerequisite: 42 Completed hours and ECON 2301 and ECON 2302.

ECON 4350. Health Economics and Finances. 3 Hours.
The health care sector compromises one-sixth of the U.S. Gross Domestic Product and has grown continuously over the last 20 years. Given the large employment by the health care sector and the complex policy issues regarding health care, students will benefit from a clear understanding of the structure of the industry.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2302 or departmental approval.

ECON 4353. Economics Of Sports. 3 Hours.
In this course, students will apply economic principles to sports and analyze economic aspects of sports including: demand and supply, advertising, team output decisions, and league/conference organization role of government.
Prerequisite: 42 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4357. Managerial Economics. 3 Hours.
Students learn to apply economic theory to analyze and improve business decision-making. It includes such topics as market analysis, production and costs, pricing, choice under uncertainty, and strategic interactions.
Prerequisite: ECON 2302.

ECON 4360. International Field Studies in Economics. 3 Hours.
This course is the study of economic policy, institutions, firms, and consumer behavior of the host country in a study abroad program.
Prerequisite: 42 Completed Hours, ECON 2300 or ECON 2301 or ECON 2302, and departmental approval.

ECON 4362. Econometrics for Business. 3 Hours.
This course focuses on the process of gathering and analyzing nonexperimental economic data. Students will analyze cross-sectional, time series, and panel data; using multiple regression techniques and interpret the results within an economics framework.
Prerequisite: ECON 2300 or ECON 2301 or ECON 2302, and BANA 3363 or MATH/STAT 3379.

ECON 4365. Introduction to Business Forecasting and Economics. 3 Hours.
In this course, students will apply statistical methods for business and economic forecasting and for hypothesis testing, estimation, and analyzing economic data. Course Equivalents: BANA 4365
Prerequisite: 42 completed hours and ECON 2301 and ECON 2302 and BANA 3363 or MATH/STAT 3379.

ECON 4367. Data Science for Business and Economics. 3 Hours.
Students examine and apply various data science methodologies and advanced statistical inference techniques used in economic, business, and public policy. Topics include logit regression models, random forest estimators, partialling out estimators for causal inference in business and economics, and an introduction to machine learning techniques.
Prerequisite: 42 hours, BANA 3363 or STAT 3379 or MATH 3379.

ECON 4373. Monetary Economics. 3 Hours.
In this course, students will study the role of money in a market economy with special attention given to national and international monetary and banking systems, as well as to their influence on the levels of income, employment, and international capital movements. (Taught only in the Fall.)
Prerequisite: 42 completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4389. Internship. 3 Hours.
This course is designed to provide the student an opportunity to apply academic skills in a practical work environment under the supervision and guidance of a working professional.
Prerequisite: Overall GPA of 2.5 or greater, ACCT 2301, ACCT, 2302, ECON 2301, ECON 2302, BANA 2372 or MATH 1342, and departmental approval.

Education (EDUC)

EDUC 1101. Educator Preparation. 1 Hour.
In this course, candidates are introduced to the details of the teacher education program. Candidates learn about educator preparation, state certification requirements, and application into the program for all EC-6 and 4-8 teaching certification majors. Restricted to education majors only.
Prerequisite: 12-15 hours in the core content related to the student's certification field.

EDUC 2302. Foundations of Public Education. 3 Hours.
Students explore the development of public educational systems and structures in historical context. Students develop an understanding of the relationship between society and education, including relevant terminology, theory, and policy relevant to the American educational system.

EDUC 2303. Introduction to Comparative Education. 3 Hours.
Students examine educational goals, policies, and practices around the world through a comparative lens. The multidisciplinary field of comparative education is explored through a focus on selected national systems of education in their differing cultural settings with particular reference to administration, curriculum development, and educational opportunity.

EDUC 2304. Philosophical Influences on Educational Systems. 3 Hours.
Students are introduced to significant philosophical theories and their influence on modern education. Students explore how these theories relate to learning and engagement in diverse educational settings.

EDUC 3301. Issues in Education. 3 Hours.
Students explore critical and contemporary educational issues across P-20. Students investigate these issues through multiple points of view including social and political contexts. Students reflect on and interpret the purpose of education in a diverse culture and examine the moral and ethical responsibilities of education professionals.

EDUC 3302. Educational Finance. 3 Hours.
Students critically examine the political and economic factors impacting finance in public education. Students explore sources of revenue, the distribution of revenue, and the budgeting and expenditure of revenue in educational settings.

EDUC 3303. Science of Learning. 3 Hours.
Students learn how the brain processes information and how this affects learning. Research on brain function and converting information into effective learning strategies and activities in education will be explored.

EDUC 3304. Educational Curriculum Design. 3 Hours.
Students develop an understanding of curriculum design as the intentional planning, organization, and design of learning strategies, processes, materials, and experiences toward defined learning and/or performance outcomes. Curriculum design approaches across diverse educational and professional contexts are explored.

EDUC 4301. Teacher Education Capstone. 3 Hours.
In this culminating course for Interdisciplinary Studies majors, students will focus on reflection and problem-solving during the student teaching experience.
Prerequisite: CIEE 4391.

EDUC 4302. Educational Law & Policy. 3 Hours.
Students examine federal and state law impacting educational institutions. Topics include organizational structures of school, federal and state systems, church-state related issues, teacher rights, rights of students with disabilities, instructional issues, tort liability, and equal opportunities in education.
Prerequisite: 15 Hours of EDUC courses.

EDUC 4303. Program Evaluation in Education. 3 Hours.
Students examine the history, professional standards, and theories of program evaluation in educational settings. Students explore professional evaluators' roles and the contexts in which program evaluation occurs.
Prerequisite: 15 Hours of EDUC courses.

EDUC 4367. Capstone in Educational Studies. 3 Hours.
Students engage in reflective activities to demonstrate cumulative knowledge in their major. Students develop a professional portfolio, construct a culminating project, and practice job seeking skills.
Prerequisite: Senior Standing.

Electronics Technology (ETEE)

ETEE 1340. Introduction to Circuits. 3 Hours. [TCCN: ENGT 1401]
This course is designed to provide fundamental understanding of electronics in DC circuits. Emphasis is on knowledge and application of electrical safety, power generation, metering instruments and circuit analysis. Laboratory experiences include hands-on circuit construction and basic troubleshooting. Course Equivalents: ITEC 1340 .

ETEE 2320. Circuits and Systems. 3 Hours. [TCCN: ENGT 1402]
This course is an in-depth study of the electronic principles associated with AC circuits. Topics of study include network theorems, circuit analysis methods, resonance, filters and frequency responses of reactive circuits. Course Equivalents: ITEC 2320
Prerequisite: ETEE 1340 or consent of instructor.

ETEE 2396. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new electrical and electronics technology topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010 and ETEE 1340.

ETEE 3313. Industrial Robotics. 3 Hours.
Students learn and apply the knowledge of industrial robotics hardware and software to integrate automation in manufacturing. Laboratory experience includes hands-on programming of a robotic arm and various troubleshooting techniques. Completion of this course helps prepare students for a robotics certification.
Prerequisite: ETEE 1340 or Consent of Instructor.

ETEE 3345. Digital Electronics. 3 Hours.
This course is a study of the principles and applications of digital logic circuits including logic gates, counters, shift registers, and combinational logic circuits. Laboratory experiences consist of experimental problems. Course Equivalents: ETEE 4373, ITEC 4373
Prerequisite: ETEE 2320.

ETEE 3350. Analog Electronics. 3 Hours.
This course is designed to provide in-depth knowledge and experience in the principles and applications of solid-state devices. Specific emphasis is placed on the construction, characteristics and applications of diodes, rectifiers, transistors, thyristors and integrated circuits. Laboratory experience is gained through circuit construction, testing and troubleshooting. Course Equivalents: ITEC 2350
Prerequisite: ETEE 2320 or consent of instructor.

ETEE 3360. Electrical Power & Machinery. 3 Hours.
Students explore DC machines, single and three-phase AC machines, and the fundamentals of electrical power systems. Topics include single and three-phase synchronous and induction machines, power transformers, DC motors and generators, and smart-grid systems with distributed renewable energy.
Prerequisite: ETEE 1340, ETEE 2320, and MATH 1420.

ETEE 3373. Control Systems Technology. 3 Hours.
This course introduces the principles of control theory with an emphasis on linear control systems. Topics may include open-loop and closed-loop industrial control system, principles and operation of electrical switching, time and control devices, AC and DC motor controls, servomechanisms, transducers, instrument symbology, and industrial detection systems. Course Equivalents: ITEC 3373
Prerequisite: ETEE 2320 and MATH 1420.

ETEE 3376. Microcontroller Applications. 3 Hours.
This course introduces microcontroller architecture and microcomputer systems, including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, interrupts, and other related topics. The functional and technological characteristics of microcontroller structures, memory components, peripheral support devices, and interface logic will be examined. Various hardware configurations and interfacing techniques will be discussed. Course Equivalents: ETEC 3376
Prerequisite: ETEE 2320 and Junior Standing or Consent of Instructor.

ETEE 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of electronics technology skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETEE 4351. Automation and Programmable Logic Controllers (PLCs). 3 Hours.
This course explores the concepts of automation, electrical control systems, and programmable logic controllers. Topics may include principles of control system operations, numbering systems as applied to electrical controls, types of programmable logic controllers and their operation, equipment interfacing, and ladder logic programs. Application-oriented laboratory experiments and design problems are used to enhance students' knowledge and skills.
Prerequisite: ETEE 3350 or Consent of Instructor.

ETEE 4352. Instrumentation & Interfacing. 3 Hours.
This course focuses on computer-aided instrumentation and interfacing. Topics include real-time industrial data acquisition hardware and software, sensors, signal conditioning, and the design of data acquisition systems using software tools.
Prerequisite: ETEE 1340, ETEE 2320, and ETEE 3350.

ETEE 4355. Electronic & Digital Communication. 3 Hours.
Students learn fundamental technologies and advanced concepts for electronic and digital communications. Topics include propagation, AM/FM modulation/demodulation, receivers/transmitters, antennas, digital coding, wire and wireless communications, and other related subjects.
Prerequisite: MATH 1420 and ETEE 3350.

ETEE 4369. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new electrical and electronics technology topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010, ETEE 1340, and Junior Standing.

ETEE 4375. Digital VLSI Design and Field Programmable Gate Arrays. 3 Hours.
Students design and build a digital system, such as a CMOS integrated circuit. Topics include CMOS transistor operation, manufacturing process for CMOS VLSI chips, implementation of logic gates in CMOS, specifically layout, design rules, and circuit families. Students also learn advanced digital circuit design techniques for analyzing and optimizing timing and power at the circuit level, synthesis, timing analysis, functional verification, design-for-test, and layout with the aid of CAD, and FPGA/VHDL tools.
Prerequisite: ETEE 3345 and ETEE 3350.

Elementary Education (CIEE)

CIEE 2333. Becoming A Teacher. 3 Hours.
This required course for those seeking EC-6 or 4-8 certification is an introduction to the concept of teaching as a professional career that makes a difference in the lives of children, youth and their families. The course engages the teacher candidates in the examination of social economics, language diversity, historical, political, curriculum, theoretical, and philosophical issues related to making a commitment to education.
Prerequisite: 18 Hours.

CIEE 3323. Curriculum for Intermediate Grades. 3 Hours.
Curriculum for Intermediate Grades will prepare teacher candidates to analyze and plan EC-6 and 4-8 content using the Texas Essential Knowledge and Skills. For those seeking EC-6 and 4-8 certification only. Must be completed before content methods.
Prerequisite: 54 Hours.

CIEE 3334. Mathematics Instruction In Elementary Grades. 3 Hours.
This course emphasizes making mathematics meaningful to children. Experience is provided in the selection and evaluation of mathematics curriculum and audio-visual materials and the preparation of appropriate instructional materials. Students observe and teach mathematics lessons in elementary grades classroom. Field experiences required. This course is taken as part of Field I Block for EC-6 Certification. Course Equivalents: CIEE 4334
Prerequisite: CIEE 3374 and Admission to Educator Preparation Program and Departmental Approval.

CIEE 3335. Science Instruction In Elementary Grades. 3 Hours.
This course emphasizes making science meaningful to children. Experience is provided in the selection and evaluation of science curriculum resources and the preparation of appropriate instructional materials. Students observe and teach science lessons in an elementary grades classroom. Field experiences required. This course is taken in semester 1 of Year Long Residency. Course Equivalents: CIEE 4335
Prerequisite: Admission to Educator Preparation Program and Departmental approval.

CIEE 3336. Social Studies Instruction In Elementary Grades. 3 Hours.
This course emphasizes making social studies meaningful to children. Experience is provided in the selection and evaluation of social studies curriculum resources and the preparation of appropriate instructional materials. Students observe and teach social studies lessons in elementary grades classroom. Field experiences required. This course is taken in semester 1 of Year Long Residency. Course Equivalents: CIEE 4336
Prerequisite: Admission to Educator Preparation Program and Departmental approval.

CIEE 3343. Curriculum and Assessment. 3 Hours.
In this course, teacher candidates focus on design, implementation, and evaluation of curriculum including components of highly successful programs. Emphasis is on assessment strategies that strengthen the link between curriculum and responsive instructional practices for meeting the needs of all learners. Admission to Educator Prep Prg (TCHR)

CIEE 3374. Human Growth & Learning. 3 Hours.
This course examines growth and learning in elementary environments. Major theories of the teaching-learning process are studied. Human development related to education is emphasized. Special attention is paid to the cultural milieu. Field experiences in public schools (10 hours). Required for EC-6 certification.

CIEE 3385. Creating Positive Classroom Communication. 3 Hours.
The purpose of this course is to provide the prospective elementary school teacher with the experiences in classroom management and discipline theories appropriate for the diverse population of students in the elementary school. This course is taken as part of the Elementary Methods Block for EC-6 Certification.
Prerequisite: CIEE 3374, admission to Educator Preparation Program and departmental approval.

CIEE 4088. Special Topics in Elementary Education. 1-3 Hours.
This course will examine special topics in the field of Elementary Education. Variable credit (1-3.)

CIEE 4089. Independent Study in Elementary Education. 1-3 Hours.
Designed to permit individual students to study specific areas of interest and need. Course Equivalents: CIEE 4375
Prerequisite: Departmental Approval.

CIEE 4116. Integrating Technology II. 1 Hour.
The purpose of this course is to plan, organize, deliver, assess, and evaluate instruction for diverse learners in a public school. Incorporating the effective use of technology at each level of the instructional cycle. In addition, this course incorporates the implementation of appropriate media for communication with and among colleagues, mentors, and students. For those seeking EC-6 certification only.
Prerequisite: Senior standing.

CIEE 4117. Assessment. 1 Hour.
This course focuses on the study and application of assessment to ascertain the development of knowledge and skills of children in the classroom. Emphasis is placed on the integration of assessment with technology and complexities in working with ELL learners. This course is offered in conjunction with student teaching. For those seeking EC-6 certification only.
Prerequisite: Senior standing and completion of the Methods Block coursework.

CIEE 4227. Integrating Technology I. 2 Hours.
This course will apply technology and computers to support instruction in various content areas. The course will explore, evaluate, and utilize computer/technology resources to design and deliver instruction as well as to assess student learning. Field experience required.
Prerequisite: Senior standing, CIEE 3374 and CIEE 3385.

CIEE 4367. Integrating Technology Into Instruction In Elementary Grades. 3 Hours.

CIEE 4376. Developing a Professional Teacher Portfolio. 3 Hours.
The purpose of this course is to provide the prospective elementary or middle school teacher the opportunity to organize artifacts on the development, exploration, integration, application, and teaching of content knowledge, pedagogical knowledge and skill development in the development of a professional teacher portfolio.
Prerequisite: Concurrent enrollment in student teaching and Departmental Approval.

CIEE 4377. Early Adolescent Learners. 3 Hours.
In this course, teacher candidates focus on the developmental changes that occur in early adolescence and the best practices that influence instruction in middle grades (grades 4-6).
Prerequisite: CIEE 3374.

CIEE 4384. Assessment Of Student Learning. 3 Hours.
This course will prepare teacher candidates to become successful in developing assessment strategies that help strengthen the link between the elementary school curriculum and responsive instructional practices for meeting the needs of diverse learners. This course is taken as part of student teaching.
Prerequisite: Admission to Educator Preparation Program and Departmental approval.

CIEE 4391. Student Teaching Elementary School. 3 Hours.
The student is assigned to student teach in an elementary school classroom for two placements totaling approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span certification grades. This course corresponds to one of those placements. As an example, an EC-6 student will have one placement in a lower grade such as 1st grade and the second placement in a higher level such as 5th grade.
Prerequisite: Senior status and admission to Student Teaching.

CIEE 4392. Student Teaching Elementary School. 3 Hours.
The student is assigned to student teach in elementary school classrooms for two placements totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements. Substitutions in specialized program areas include BESL 4320, SPED 4384, or CISE 4397.
Prerequisite: Senior status and admission to Student Teaching.

Engineering Technology (ETEC)

ETEC 1010. Engineering Foundations. 1-2 Hours.
This course focuses on leadership and study skills necessary for succeeding in the many career options available to professionals in industrial technology, business, and engineering education. Variable Credit (1 to 2). Course Equivalents: ETEC 1100, ITEC 1100 .

ETEC 1366. Machining Technology I. 3 Hours.
This course serves as an introduction to the problems, techniques, and processes of modern machining technology. Instruction is given in the use of hand and machine tools, introduction to computer numerical control, product planning and development, metric measurement, safety, and opportunities for employment in the machining industry. Course Equivalents: ITEC 1366, ETDD 1366 .

ETEC 1371. Descriptive Geometry. 3 Hours. [TCCN: ENGR 1304]
This course emphasizes problems of space relations of points, lines, surfaces, intersections, and developed surfaces, and their application to the graphical solution of engineering problems. Course Equivalents: ITEC 1371 .

ETEC 2366. Machining Technology II. 3 Hours.
Students learn Computer Numerical Control (CNC) programming as it applies to fundamental milling and turning operations. Topics may include machine tool axis motions, cutting tool setup, methods of work piece setup, cutting tool path design, cutting tool compensation, and canned cycles. Students use computer-aided manufacturing (CAM) software to create toolpaths and programs for multi-axis CNC milling and turning machines. Equivalent Courses: ETDD 2366
Prerequisite: ETDD 1366.

ETEC 2382. Manufacturing Processes. 3 Hours. [TCCN: ENGT 2310]
Students examine a broad range of manufacturing processes with an emphasis on understanding manufacturing procedures and changes of physical properties of material during these processes. Topics may include forming and shaping processes, material removal processes, joining processes, casting and solidification processes, engineering metrology and instrumentation, and other aspects of manufacturing.

ETEC 2396. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new engineering technology topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010.

ETEC 3300. Technology Innovations. 3 Hours.
This course provides a study of societal technologies and their effects on the daily lives of consumers. The course presents the pervasive nature of technology innovations and increases the awareness of the promises of uncertainty associated with the use of technology as a human enterprise. Course Equivalents: ITEC 3300
Prerequisite: ETEC 1010 and Sophomore standing.

ETEC 3340. Solar and Wind Energy Systems. 3 Hours.
This course will examine grid-connected and stand-alone solar photovoltaic and wind energy systems. System components including batteries, PV modules, charge controllers, maximum power point trackers, vertical and horizontal axis turbines, aerodynamics of wind turbines, wind farms and sighting, and inverters will be discussed. A comprehensive review of power production methods from solar and wind resources will be included, along with site surveying, commercial development, economics, and environmental impacts.
Prerequisite: ETEE 1340 and Junior Standing.

ETEC 3344. Computer Integrated Manufacturing. 3 Hours.
Students examine the concept of Computer Integrated Manufacturing and its industrial applications. Topics include smart manufacturing, Computer Aided Process Planning, robotics in manufacturing systems, rapid prototyping, and the cost estimating of different manufacturing processes.
Prerequisite: ETEC 2382 and ETDD 2366.

ETEC 3360. Related Science, Mathematics, & Technology in Occupations. 3 Hours.
This is the written portion of an 18-hour segment of proficiency examinations. Consent of department chair. Course Equivalents: ITEC 3360
Prerequisite: Sophomore standing.

ETEC 3361. Related Science, Mathematics, and Technology in Occupations. 3 Hours.
This is the written portion of an 18-hour segment of proficiency examinations. Course Equivalents: ITEC 3361
Prerequisite: Consent of department chair.

ETEC 3362. Manipulative Skills in Occupations. 3 Hours.
This segment is for the manipulative portion of the proficiency examination. Consent of department chair. Course Equivalents: ITEC 3362
Prerequisite: Sophomore standing.

ETEC 3363. Manipulative Skills in Occupations. 3 Hours.
This segment is for the manipulative portion of the proficiency examination. Course Equivalents: ITEC 3363
Prerequisite: Consent of department chair.

ETEC 3364. Related Subjects in Occupational Personal Qualifications. 3 Hours.
This is the oral portion of the proficiency examination. Consent of department chair. Course Equivalents: ITEC 3364
Prerequisite: Sophomore standing.

ETEC 3365. Related Subjects in Occupations and Personal Qualifications. 3 Hours.
This is the oral portion of the proficiency examination. Course Equivalents: ITEC 3365
Prerequisite: Consent of department chair.

ETEC 3367. Engineering Materials Techniques. 3 Hours.
Students learn about the physical properties, industrial applications, limitations, and selection of engineering materials such as polymers and metals. Topics include atomic structure, stress and strain, phase diagram, standard material tests, and environmental considerations. Course Equivalents: ETEC 4367, ITEC 4367
Prerequisite: ETEC 1010.

ETEC 3374. Time And Motion Study. 3 Hours.
A study of the principles of motion economy, work measurement and improvement of production methods as they apply to modern industry. Attention is given to human relations, work simplification, and selected charting procedures. Course Equivalents: ITEC 3374
Prerequisite: Sophomore standing.

ETEC 3375. Statics. 3 Hours.
This course examines qualitative and quantitative treatments of forces and moments. Designing trusses, constructing free body diagrams, and performing equilibrium analysis for coplanar systems are included. Course Equivalents: ITEC 3375
Prerequisite: PHYS 1301, PHYS 1101, and MATH 1316 or MATH 1420.

ETEC 3382. Manufacturing Processes II. 3 Hours.
Students learn manufacturing processes of extrusion, injection molding, and thermoforming applied to polymers and composite materials. Topics include different types of additive manufacturing processes such as fused deposition modeling, vat photopolymerization, binder jetting, sheet lamination, and powder bed fusion.
Prerequisite: ETEC 2382 or consent of instructor.

ETEC 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of engineering technology skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETEC 4099. Engineering Innovation. 1-3 Hours.
In this course, students work closely with faculty to design, develop, and implement innovative engineering projects as part of their capstone experience. Variable credit 1-3. Course Equivalents: ETEC 4199
Prerequisite: Faculty Approval.

ETEC 4199. Senior Design I. 1 Hour.
In this course, students work closely with faculty to design, develop, and implement innovative engineering projects as part of their capstone experience.
Prerequisite: Senior Standing.

ETEC 4315. Quality Assurance and Control. 3 Hours.
Students learn principles and practices related to quality assurance and quality control in engineering. They develop quality control charts and analyze product liability and process capability. They solve problems related to reliability, failure modes, and engineering quality systems such as ISO standards, supplier certification requirements, and Six Sigma. Topics include the evolution of quality assurance and control practices in engineering applications, and modern quality tools as related to strategic planning, cost of quality, customer satisfaction, and employee involvement. Statistical methods are used to evaluate process capability, inspection data, continuous improvement efforts, and lean manufacturing techniques. Junior Standing.
Prerequisite: STAT 3379 or consent of instructor.

ETEC 4340. Alternative Energy Technology. 3 Hours.
This course examines existing and potential ambient alternative energy sources, production capacities, energy harvesting, conversion, and storage techniques. The course will also examine fundamental concepts, terminology, definitions, and nomenclature common to all energy systems. Course Equivalents: ITEC 4340
Prerequisite: ETEE 1340.

ETEC 4350. Utilities Project Management. 3 Hours.
Students examine key energy and industry utility competencies including project management, bidding and negotiation, technical job execution, and safety management. This class is designed to immerse students into the field of Engineering, Procurement, and Construction (EPC), through real projects from the industry.
Prerequisite: Junior standing and consent of instructor.

ETEC 4355. Agile Technology Framework. 3 Hours.
Students learn values, principles and practices related to Agile Technology Framework. Students also examine best practices in the evolution of agile process development in engineering, manufacturing and digital transformations. Topics may include project framework, Agile House of Lean model, Agile roadmap, system thinking, Scrum and Kanban, Agile Cycles, story writing, and Agile Tools.
Prerequisite: MATH 1314 and Junior Standing.

ETEC 4369. Special Topics in Industrial Technology. 3 Hours.
Individual study in specialized areas of Industrial Technology. To be directed and approved by the Industrial Technology advisor. This course is designed to be a multitopic course. The student can take the course under various special topics being offered. Sophomore standing. Course Equivalents: ITEC 4369
Prerequisite: Approval of faculty, program coordinator and chair.

ETEC 4374. Biomedical Instrumentation I. 3 Hours.
Students investigate the foundational theory, techniques, and applications of devices used in the field of healthcare. Course content is delivered in didactic and lab settings and may include the application of anatomy and physiology to the understanding of equipment outputs, safety, and limitations. Topics may include biopotentials, electrodes, transducers, and the varied display outputs of the patient-machine interface.
Prerequisite: ETEC 1010.

ETEC 4375. Biomedical Instrumentation II. 3 Hours.
Students investigate advanced concepts of biomedical instrumentation. Topics include ultrasonics, lasers, and surgical equipment with a focus on equipment performance analysis and troubleshooting.
Prerequisite: ETEC 4374.

ETEC 4376. Strength of Materials. 3 Hours.
This courses focuses on the analysis of stresses, strains, deflection, and deformation in bodies under the action of loads. Topics include statically indeterminate axially loaded members, thermal deformation, distribution of bending and shearing stresses in beams, stress and shear flow formulas, combined stresses and Mohr's circle, torsion on a circular shaft, empirical column formulas, and bolted joint failures.
Prerequisite: ETEC 3375.

ETEC 4377. Biomedical Imaging. 3 Hours.
Students apply engineering theory to the operations of common medical imaging modalities. Course content will be delivered in didactic and lab settings. Topics may include the scope and limitations of engineering requirements to produce and display the appropriate content associated with radiography, fluoroscopy, mammography, computed tomography, magnetic resonance imaging, ultrasound, positron emission tomography, and single-photon emission computerized tomography.
Prerequisite: ETEC 4374.

ETEC 4384. Supervisory Personnel Practice. 3 Hours.
This course introduces students to the principles of management as pertaining to personnel. Responsibilities of management, industrial economics, supervisory information, training, group dynamics, work simplification, labor and human relations, working conditions, morale, motivation, and mental health are covered. Course Equivalents: ITEC 4384
Prerequisite: ETEC 1010 or Junior standing.

ETEC 4390. Directed Studies. 3 Hours.
Designed to provide students with the opportunity to gain specialized experience in one or more of the following areas: internship, laboratory procedures, individualized study, innovative curricula, workshops, specialized training schools, and seminars. Internship is required of all teacher education majors. May be repeated or taken concurrently to a maximum of 9 hours. Faculty, Program Coordinator and Chair approval required. Course Equivalents: ITEC 4390
Prerequisite: Sophomore standing.

ETEC 4391. Work Base Mentorship. 3 Hours.
Students work in their specialization in the industry. Students may complete their internship in one or two semesters. Students must work 100 clock hours for 1 college credit. Faculty, Program Coordinator and Chair approval required. Course Equivalents: ITEC 4391
Prerequisite: Junior standing.

ETEC 4399. Senior Design II. 3 Hours.
Students learn advanced topics and gain hands-on skills in engineering technology fields while working in team environments. Topics and activities may include design and implementation processes, application of project management that culminates with analysis, drawings, installation or prototype, and testing of a significant project. Presentation and technical reports are required.
Prerequisite: ETEC 4099 and Senior Standing.

English (ENGL)

ENGL 0111. Tutorial for Basic Writing. 1 Hour.
This course is a one-hour writing tutorial, which focuses on basic conventions of college writing, providing instruction in the fundamentals of English grammar, mechanics, word choice, vocabulary, and spelling. The primary concerns are the word, the sentence, the paragraph, and the short theme. The goals of the course are to raise the students' level of understanding of SAE (Standard American English), support them in the ENGL 1301 in which they are simultaneously enrolled, and prepare them for ENGL 1302. Prerequisite: Score of 360-362 in writing in the Texas Success Initiative Assessment Test or Departmental Approval. Credit in this course will not be allowed to count toward graduation or computation of grade point average or classification of students by hours completed. (Course does not fulfill University degree requirements.)
Prerequisite: Score slightly below passing on the writing portion of the Texas Success Initiative (TSI) Assessment Test or departmental approval.

ENGL 1301. Composition I. 3 Hours. [TCCN: ENGL 1301]
Students develop rhetorical knowledge, including negotiating purpose, audience, context, and conventions. Students practice their writing processes including drafting and revising for a variety of purposes. Students may be subject to companion course INRW 0014 depending on their TSI status.

ENGL 1302. Composition II. 3 Hours. [TCCN: ENGL 1302]
Students build on their rhetorical knowledge, incorporating more complex methods in their writing processes, including using research in student writing, writing for specific contexts, and/or multimodal composing. Students integrate critical thinking skills into writing, including analysis, synthesis, interpretation, and evaluation.
Prerequisite: ENGL 1301.

ENGL 2332. World Literature I: Before the 17th Century. 3 Hours. [TCCN: ENGL 2332]
Students analyze the philosophical insights and aesthetic values of classical, medieval, and renaissance masterpieces. Students write papers based on themes and concepts included in the works studied. All students may enroll. English majors must take this course. Course Equivalents: ENGL 2331
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 2333. World Literature II: From the 17th Century and After. 3 Hours. [TCCN: ENGL 2333]
Students read selected works of representative writers of various cultures beginning from the seventeenth century through the present. Students write papers based on themes and concepts included in the works studied. All students may enroll.
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 3330. Introduction to Technical Writing. 3 Hours.
Students study special problems of technical literature and technical report writing. Students also design content for written communications in business, industry, and government.
Prerequisite: ENGL 1301, ENGL 1302 and 45 hours of college credit.

ENGL 3334. Literature and Film. 3 Hours.
Students evaluate the structure, imagery, characterization, and themes of novels, short stories, essays, and poems associated with those of selected motion picture films.
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 3336. Studies in Women's Literature. 3 Hours.
Students investigate works by women writers that span a variety of genres, nationalities, and literary periods.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3337. African-American Literature. 3 Hours.
Students explore the historical, political, and literary problems particular to African-American writers. Students also study the development of African-American identity through cultural expression in a variety of media and genres.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3338. Studies in Multicultural Literature. 3 Hours.
Students examine the themes, techniques, and literary movements from different cultures. Students may focus on more than one ethnic or national culture.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3360. Survey of American Literature to 1865. 3 Hours.
Students survey the themes, genres, and authors in American literary history from the period of exploration and settlement through the American Renaissance and the Civil War. All English majors must take this course.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3361. Survey of American Literature from 1865 to the Present. 3 Hours.
Students examine the authors, genres, and movements in American literature from 1865 to the present. Students specifically study the representative works of Realism, Naturalism, Modernism, and Post-Modernism. All English majors must take this course.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3363. Mythology. 3 Hours.
Students investigate myths and their application to literary studies. Students in the Secondary Education certification program may take this course to fulfill the Language Arts composite.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3364. Folklore. 3 Hours.
Students study the folk motifs of various cultures throughout the world. Students in Secondary Education certification program may take this course to fulfill the Language Arts composite.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3370. Modern Drama. 3 Hours.
Students investigate the major figures in modern British, American, and Continental drama.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3371. Sociolinguistics. 3 Hours.
Students study language in its social and cultural contexts by examining linguistic diversity in relation to societal variables such as region, age, class, ethnicity, and gender. Students also study the variation in an individual speaker's language dependent on changes in setting, goals, and participants.
Prerequisite: ENGL 1301 and 1302.

ENGL 3372. Introduction to Linguistics. 3 Hours.
Students learn the basic foundations of English linguistics. Topics may include the sound system of English, the structure and meaning of words and sentences, language use in context, language and the brain, dialect and register variation, and the place and history of English among the languages of the world.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3373. English Grammar. 3 Hours.
Students build on their pre-existing linguistic knowledge of the English language to further analyze the infinite number of grammatical patterns that stem from a mere handful of rules. Students identify different grammatical forms and their functions, different sentence types, and transformations.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3374. Teaching Writing and Literature. 3 Hours.
Students examine the theories and practices of teaching writing and literature in secondary education. Students focus on classroom practices, definition of standards, invention, assignment design, evaluation of student writing, and approaches to teaching young adult literature.
Prerequisite: ENGL 1301, ENGL 1302, ENGL 3373 and ENGL 2332 or ENGL 2333.

ENGL 3377. Argument and Persuasion. 3 Hours.
Students learn the art of successful argumentative and persuasive writing by surveying the history of argument, the structuring of a sound argument, and stylistics.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3378. Document Design. 3 Hours.
Students analyze major rhetorical and visual design theories in order to create professional texts that integrate effective visual and written strategies and that create complete and compelling messages across a variety of workplace genres.
Prerequisite: ENGL 1301, ENGL 1302 and ENGL 3330.

ENGL 3379. Introduction to Creative Writing: Creative Nonfiction. 3 Hours.
Students develop the techniques of writing creative essays such as personal essays, memoir, and lyric essays.
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 3380. Advanced Composition. 3 Hours.
Students examine the rhetorical forms and approaches to the problems of composition.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3381. Introduction to Creative Writing: Fiction. 3 Hours.
Students develop the techniques of writing fictenglional pieces such as short stories, plays, and novels.
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 3382. Introduction to Creative Writing: Poetry. 3 Hours.
Students develop the techniques of writing poems.
Prerequisite: ENGL 1301 and ENGL 1302 .

ENGL 3383. Practicum in Publishing. 3 Hours.
Students evaluate topics and issues related to editing and publishing. Students also work with internal or external organizations for semester-long internships.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 3381 or ENGL 3382.

ENGL 3384. Early English Masterworks. 3 Hours.
Students analyze the works of major figures in British literature from the beginning to 1798. All English majors must take this course.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3385. Later English Masterworks. 3 Hours.
Students analyze the works of major figures in British literature from 1798 to the present. All English majors must take this course.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3388. Texas Crossroads. 3 Hours.
Students examine the intersections among literature, history, science, culture, and politics of the "Crossroads" area of Texas.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3390. The Bible As Literature. 3 Hours.
Students evaluate the narrative, structures, and themes of selected books of the Old and New Testament. Students also examine Hebrew and Christian scriptures in translation, analyze various genres in the Bible, and consider the cultural and mythological context of selected passages and the literary influences made by these passages.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3391. Studies in Shakespeare: Tragedies and Histories. 3 Hours.
Students read and analyze a various number of Shakespeare's tragedies and histories, ranging from the earliest experiments of his career, to the great history plays of the 1590s, and through the major tragedies of the early 1600s.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 3392. Studies in Shakespeare: Comedies and Romances. 3 Hours.
Students read and analyze a various number of Shakespeare's comedies and romances, spanning from his early years, through the great festive comedies of the late 1590s, through the "Dark Comedies" of the 1600s, to the romances of the last years of his career.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 4330. Writing in the Professions. 3 Hours.
Students further build on their foundation in technical writing by applying the methods previously learned to prepare and edit specialized documents in various professional writing situations.
Prerequisite: ENGL 1301, ENGL 1302, and ENGL 3330.

ENGL 4331. Composition Theory and the Teaching of Writing. 3 Hours.
Students study major theories of composition to learn pedagogical techniques for composition appropriate for elementary and secondary students.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4335. Studies in Rhetoric. 3 Hours.
Students investigate the methods of rhetoric. Topics may include rhetorical theory, style and stylistics, rhetorical criticism, ethical issues in rhetoric, and rhetoric literature.
Prerequisite: ENGL 1301, ENGL 1302.

ENGL 4339. Teaching Literature of Diversity. 3 Hours.
Students read and evaluate literary works by women and by persons of color that are appropriate to teach in the secondary English classroom.
Prerequisite: ENGL 1301 and ENGL 1302, ENGL 2332 or ENGL 2333, and 3 hrs of ENGL 3000 level.

ENGL 4340. Professional Style and Editing. 3 Hours.
Students engage in an advanced study of style and editing in the specialized conventions of technical and professional communication. Students also learn to analyze, generate, and refine technical prose.
Prerequisite: ENGL 3330.

ENGL 4350. Technical Writing Internship. 3 Hours.
In this course, students gain direct work/career experience in service/learning or business/corporate settings. They apply the principles, concepts, and theories acquired in classwork with an emphasis on technical writing in professional organizations.
Prerequisite: ENGL 3378 and ENGL 4340 or special permission from the instructor.

ENGL 4360. The English Romantic Movement. 3 Hours.
Students survey the major works of the Romantic Movement in England, focusing on those of Wordsworth, Coleridge, Byron, Keats, and Shelley.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4363. Studies English Renaissance. 3 Hours.
Students read and evaluate non-dramatic literature of England written between 1500 and 1660.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4364. Methods of Teaching English in Secondary Schools. 3 Hours.
Students learn and apply the techniques of selecting, organizing, and presenting English subject matter and skills to students in secondary school. All English majors and minors working toward a secondary teaching certificate must take this course.
Prerequisite: ENGL 1301, ENGL 1302, ENGL 3374 and ENGL 2332 or 2333.

ENGL 4365. Victorian Literature. 3 Hours.
Students examine the works of major writers of the Victorian period and examine the political, social, and economic background of the age.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4367. History of English Language. 3 Hours.
Students survey the English language and its relationship to other Indo-European languages. Students also study the changes in English sounds, morphology, syntax, and lexicon from Anglo-Saxon times to the present.
Prerequisite: ENGL 1301, ENGL 1302, either (ENGL 2332 or ENGL 2333), and 3 hours of 3000 level ENGL.

ENGL 4369. Studies in Selected Genres in American Literature. 3 Hours.
Students examine major writers, themes, and/or historical movements within a selected genre in American literature. Topics may vary from semester to semester, and at any one point may include subjects such as modern poetry, the short story, the Naturalists, folklore, regional literature, nonfiction prose, or other subjects.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4370. American Regional Literature. 3 Hours.
Students read and evaluate the works of selected Southern/Southwestern writers. Students focus on artistic merit and may also examine additional material such as folklore, local color, and historical documents.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4372. American Literature: 1820's - 1860's. 3 Hours.
Students investigate the emergence of a distinctive American literary art and focus on writers such as Poe, Emerson, Thoreau, Hawthorne, Melville, and Whitman.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4374. Studies In The English Novel. 3 Hours.
Students examine a variety of topics and figures prominent in the British novel.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4375. Special Problems In English. 3 Hours.
Advanced students study individual topics or problems in English. Students may only take the course by permission of the Department Chair. They also may take it for Academic Distinction credit. See, Academic Distinction Program in this catalog.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4376. Tudor And Stuart Drama. 3 Hours.
Students examine the development of the drama in England and the predecessors and contemporaries of Shakespeare.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4377. Literature of the Restoration and 18th Century: 1660-1800. 3 Hours.
Students study the drama, poetry, and prose of the long eighteenth century. Students read the works of writers such as Dryden, Swift, Pope, and Johnson within their cultural contexts.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4378. Studies In World Fiction. 3 Hours.
Students evaluate a variety of topics and figures in world fiction.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4380. Advanced Creative Writing: Nonfiction. 3 Hours.
Students focus on the theory and craft of creative nonfiction and emphasize learning the process of peer review of student writing in the areas of memoir, the personal essay, personal cultural criticism, and literary journalism.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3379.

ENGL 4381. Advanced Creative Writing: Fiction. 3 Hours.
Students focus on the theory of modern and contemporary fiction and emphasize learning the process of peer review of student writing in the areas of the novel and short fiction.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3381.

ENGL 4382. Advanced Creative Writing: Poetry. 3 Hours.
Students focus on the techniques of writing poetry and read related outside sources on poetic theory and form.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3382.

ENGL 4383. The Development of Drama in America. 3 Hours.
Students survey major movements and significant figures in American dramatic literature, reading works of writers ranging from Royall Tyler to the present.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4384. Studies In The American Novel. 3 Hours.
Students examine a variety of topics and figures in the American novel.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4385. Studies In Chaucer. 3 Hours.
Students study in depth the works of Chaucer, placing emphasis on “The Canterbury Tales” as they reflect the man and his times.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4386. Literature Of The Middle Ages. 3 Hours.
Students examine selected works of Old and Middle English literature with some continental works. Topics may include, at various times, works as early as Beowulf (ca. 8th-9th c.) to ones as late as Malory's "Morte D'Arthur" (late 15th c.).
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4387. 20th Century Literature of England, Ireland, & Commonwealth. 3 Hours.
Students study a variety of 20th-century literature by writers associated with England, Ireland, or English-speaking groups (not American) formerly colonized by the British. Students read literary works by major figures, learn of the cultural and historical forces influencing these works and writers, and develop an understanding of the main concepts and movements that distinguish this body of literature. Topics may vary from term to term.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4390. Literary Criticism And Theory. 3 Hours.
Students survey the major modes of literary criticism. Students also review the basic concepts underlying specific theories of literary criticism and their application and impact within a literary field selected by the instructor.
Prerequisite: ENGL 1301, ENGL1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4394. Studies in 17th Century British Literature. 3 Hours.
Students engage a range of British literature in the seventeenth century, focusing mostly on the major authors of this period.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2342 or ENGL 2311, and ENGL 3384.

ENGL 4399. Study In Selected Literary Approaches and Topics. 3 Hours.
Students focus on the works originating from a particular author, region, period, theme, genre, or critical approach. Topics vary from semester to semester.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 completed hours ENGL 3000-level.

Environmental Science (ENVR)

ENVR 1101. Environmental Science Lab. 1 Hour.

ENVR 1301. Environmental Science. 3 Hours.

ENVR 3305. Legal Aspects Of Pollution Control. 3 Hours.
A study comparing various state and federal laws with particular emphasis on the State of Texas statutes will be conducted. Nature of evidence for prosecution under these laws will be considered. Fall.
Prerequisite: BIOL 1401, and CHEM 2401.

ENVR 3310. Environmental Sanitation. 3 Hours.
A study of topics relating to public health and sanitation. The causative agents of human diseases of public health importance are characterized, and present knowledge of prevention and control of these diseases is reviewed. Two-hour laboratory. Odd year, Fall. of Chemistry.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2420 OR BIOL 3470, and 8 hrs.

ENVR 3320. Solid Wastes And Recycling. 3 Hours.
A study of solid wastes and recycling pertaining to sources, storage, processing, economics, and legal issues involved. Physical and chemical components of wastes and waste processing and their environmental effects will be stressed. Odd year, Spring.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2420 or BIOL 3470, ENVR 3305, GEOL 1303, GEOL 1103, and CHEM 2401 and Junior standing.

ENVR 3330. Industrial Hygiene. 3 Hours.
A study of industrial hygiene and occupational health and safety. This course will present the basics of industrial hygiene and work place monitoring. Emphasis will be on fundamentals of work place hazard recognition, techniques of evaluation, and methods of control. Even year, Spring.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, CHEM 2401, and PHYS 1301, PHYS 1101, PHYS 1302, PHYS 1102.

ENVR 3430. Water Supply and Waste Water Distribution. 4 Hours.
Water supply, development, treatment and distribution; waste water collection and treatment; water purification and reuse; and the chemistry and ecology of aquatic systems are studied. Two-hour laboratory. Fall.
Prerequisite: BIOL 1301, BIOL 1101, CHEM 2401, and MATH 1420.

ENVR 4095. Special Topics in Environmental Science. 1-3 Hours.
Individual study in specialized areas of Environment Science. To be directed and approved by the Environmental Science advisor. Variable Credit (1-3).

ENVR 4110. Undergraduate Seminar. 1 Hour.
Student discussions of current scientific literature in environmental science. Required of environmental science majors. Fall, Spring.
Prerequisite: Senior standing.

ENVR 4111. Undergraduate Seminar. 1 Hour.
Student discussions of current scientific literature in environmental science. Required of environmental science majors. Fall, Spring.
Prerequisite: Senior standing.

ENVR 4305. Hazardous Waste Management. 3 Hours.
This course deals with the technical and regulatory aspects of handling and disposing of toxic and hazardous wastes based on recently mandated legislation procedures. This course will educate current students in an area that is of major national concern and will update persons already working in the field of environmental science. Spring.
Prerequisite: CHEM 2401, BIOL 1401, GEOL 1403, and Junior standing.

ENVR 4320. Environmental Toxicology. 3 Hours.
(Also listed as BIOL 4320). This course presents basic toxicology as a qualitative and quantitative science of the effects of poisons (toxins) upon the environment, individuals, and populations. The course will also provide a comparison of the toxicology of human and other species' exposure to common environmental contaminants. Two one-hour lectures and one two-hour laboratory. Even year, Fall. CHEM, and Junior standing.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, and BIOL 2420 or BIOL 3470; MATH 3379 or BIOL 4374; 8 hrs.

ENVR 4361. Environmental Science Field Experience. 3 Hours.
A supervised off-campus intern work experience in an approved area of Environmental Science with industry, business, or government. This course provides the student with direct professional work experience with industry or governmental entity. Academic credit is based on a written technical report and an oral presentation. Summer. of advanced Environmental Science and approval of instructor.
Prerequisite: 6 hrs.

ENVR 4405. Air Quality. 4 Hours.

Equine Science (EQSC)

EQSC 2364. Equine Science. 3 Hours.
Students engage in a survey of the working and pleasure horse industry; breed selection, breeding, feeding, diseases, unsoundness, and management. Laboratory work involves evaluation, care and grooming, tack and equipment, and basic management.

EQSC 2365. Equine Safety and Handling. 3 Hours.
Students gain knowledge and skills in the proper techniques and behavior when working around horses safely and effectively. Topics include animal and human behavior, handling, and human-animal interaction techniques, controlling and manipulating horse movement, health and animal well-being assessment, and basic management strategies and techniques.

EQSC 2390. Selection and Evaluation of Horses. 3 Hours.
This course allows the student to become familiar with the basic concepts necessary to select and evaluate horses from a judge's perspective. Evaluation of conformation, balance, symmetry, cadence, suppleness, and impulsion is used to understand these concepts. The ability to prepare and present oral and written reasons to support critical thinking and decision-making skills is reviewed. Course Equivalents: AGRI 2390 .

EQSC 2396. Special Topic. 3 Hours.
Students examine special topics/issues in Equine Science at an introductory level. This course may be repeated up to three times as topics and subject matter changes.

EQSC 3340. Equine Behavior & Training I. 3 Hours.
This course will aid in developing skills to increase horsemanship ability and knowledge so that the student can more effectively communicate with the young horse. The fundamentals of equine behavior are studied. Ground training methods are applied to teach the young horse discipline while increasing the training and value of the horse. Stable management, equipment, and pedigrees will also be discussed. Course Equivalents: AGRI 3340
Prerequisite: EQSC 2364.

EQSC 3355. Foaling Practicum. 3 Hours.
Students engage in practical, hands-on experiences of foaling mares. Endocrinology of parturition, nutritional management of mares and foals, and rebreeding management of post-partum mares are examined.
Prerequisite: EQSC 2364.

EQSC 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of equine skills and practices. Topics may include internships, individual research, and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

EQSC 4367. Stock Horse Equitation. 3 Hours.
The course will be an in-depth study of equitation including simple and advanced maneuvers that are essential to various types of equine performance events. Students will be expected to strengthen communication skills between horse and rider through various exercises. The university equestrian team will be developed from this course. Junior standing. Course Equivalents: AGRI 4367
Prerequisite: EQSC 3340.

EQSC 4369. Special Topic. 3 Hours.
Students examine special topics/issues in Equine Science at an advanced level. This course may be repeated up to three times as topics and subject matter change.
Prerequisite: Junior standing.

EQSC 4373. Equine Reproduction. 3 Hours.
Students explore the general principles and applications of equine reproduction is presented. Course material may include reproductive anatomy of the mare and the stallion and endocrinology as related to reproduction. Course Equivalents: AGRI 4373
Prerequisite: EQSC 2364 and Junior standing.

EQSC 4379. Equine Nutrition. 3 Hours.
Students engage in an overall evaluation of the equine digestive system, in regards to anatomy, physiology, digestive processes, nutrient requirements, feedstuffs, management, and health care. Current topics in equine nutrition research are also discussed. Junior standing. Course Equivalents: AGRI 4379
Prerequisite: EQSC 2364.

EQSC 4387. Equine Exercise Physiology. 3 Hours.
Students examine current concepts and research regarding physiological changes occurring during the training and conditioning of horses for athletic endeavors. Topics may include the industries of horse sales, training, physical rehabilitation, veterinary medicine, types of tack, and equipment used in training, among others.
Prerequisite: EQSC 2364 .

EQSC 4391. Equine Behavior & Training II. 3 Hours.
Students study equine behavior, safety, and training techniques. Laboratory work involves planning record keeping systems, feeding schedules, tack and equipment, training young stock for work and pleasure, and specialized management practices. Course Equivalents: AGRI 4391
Prerequisite: EQSC 3340 and Junior standing.

Euphonium (EUPH)

EUPH 1101. Secondary Performances- Euphonium. 1 Hour.
Students study techniques and musicality related to euphonium in weekly individualized private instruction. Students admitted as an Euphonium primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

EUPH 1201. Individual Performances-Euphonium. 2 Hours.
The course consists of individualized private instruction on the euphonium. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

EUPH 3201. Individual Performances-Euphonium. 2 Hours.
The course consists of advanced individualized private instruction on the euphonium. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

EUPH 3202. Applied Euphonium with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the euphonium. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Fashion Merchandising (FAMD)

FAMD 1332. Introduction to Fashion Merchandising. 3 Hours.
Students examine the history, characteristics, and global interrelationships of all segments of the fashion industry; and identify how fashion is conceived, marketed, and sold. Students learn and demonstrate knowledge of the evolving nature of the fashion business as they relate to the four levels of the fashion industry which include the Primary, Secondary, Retail, and Auxiliary Levels of Merchandising. Students are also introduced to fashion related terminology, resources, processes, practices, industry participants, and career opportunities. Course Equivalents: FACS 1332 .

FAMD 1369. Introduction to Textiles. 3 Hours.
This course provides an introduction to fiber science and technological advances in the manufacture of textile products. It focuses on the complex interrelationships of fibers, yarns, fabrics, finishes, and coloring processes. Offered spring semesters. Course Equivalents: FACS 1369, FACS 2369 .

FAMD 2333. Fashion Merchandising Technology. 3 Hours.
Students explore fashion merchandising and design-related software and technologies used in the fashion and retailing industries. Students are introduced to the computer as a creative tool to upgrade and maintain their skills with the current industry standards. The latest software is taught with an emphasis on fashion industry applications. Course Equivalents: FACS 2333
Prerequisite: FAMD 1332 (allows concurrent enrollment).

FAMD 2366. Fashion in Society. 3 Hours.
Basic fashion theory is studied along with theories of dress and adornment from both psychological and sociological perspectives. The course also examines the individual's attitudes toward and perceptions of personal dress and the appearance of others. Offered fall semesters. Course Equivalents: FACS 2366 .

FAMD 2375. Fashion Promotion. 3 Hours.
Promotion principles are applied to the merchandising of fashion goods through special events, displays of merchandise, and advertising and personal selling. Offered spring semesters. Course Equivalents: FACS 2375, FACS 3378
Prerequisite: FAMD 1332.

FAMD 3325. Digital Fashion Retailing. 3 Hours.
Students employ the principles of omni-channel retailing through the development and management of layered, digitally connected, and coordinated shopping experiences. Settings include retail channels such as brick and mortar, catalog, e-commerce, and mobile with a focus on the customer experience. Students also identify effective interactive marketing strategies, including social media and search engine optimization as they design integrated marketing strategies across various digital platforms. Offered in summer only. Course Equivalents: FACS 3325
Prerequisite: FAMD 1332 and FAMD 2333.

FAMD 3348. Buying I Merchandise Control. 3 Hours.
Techniques of merchandise control including retail mathematics involved in markup, markdown, stock control, open-to-buy, inventory control, pricing and financial statements are studied. Consideration is given to managerial decisions based on the mathematical information encountered in retailing. Taken prior to HUSC 4369 Internship. Offered fall semesters. Course Equivalents: FACS 3348, FACS 3363, FACS 4363
Prerequisite: FAMD 1332 and FAMD 2333.

FAMD 3368. Fashion Forecasting. 3 Hours.
Students gain a comprehensive understanding of fashion product trends, including researching and interpreting fashion direction, analyzing comparable market offerings, and developing color, style and fabric trends. Customer shopping preferences, revenue optimization, global collaboration, and selling innovation are explored through creative problem-solving. Course Equivalents: FACS 3368
Prerequisite: FAMD 1332 and FAMD 2366.

FAMD 3371. Fashion Merchandising Management. 3 Hours.
This course addresses fundamental principles for successful merchandising of fashion goods, including sales, buying, and marketing procedures. Analysis of consumer and customer demands also are explored. Taken prior to HUSC 4369 Internship. (3-0). Offered fall semesters. Course Equivalents: FACS 3371
Prerequisite: FAMD 2375.

FAMD 3375. Fashion Brand Management. 3 Hours.
Students will develop, build, and sustain a consistent fashion brand strategy. Students will employ creative thinking skills in communicating strategic and engaging brand experiences, promotions, and content specific for fashion products. Students explore multiple types of fashion branding strategies, from luxury brands to mass-market brands. Course Equivalents: FACS 3375
Prerequisite: FAMD 2333 and FAMD 2375 (allows concurrent enrollment).

FAMD 4329. Global Issues in Fashion. 3 Hours.
Students examine the global nature and scope of the production and distribution of fashion goods. Students evaluate current political, social, and economic developments within the international marketplace and develop strategies to address challenges that face the global fashion industry. Offered spring semesters. Course Equivalents: FACS 4329
Prerequisite: FAMD 3371.

FAMD 4348. Buying II: Planning & Allocation. 3 Hours.
Students examine and interpret the influence of merchandise planning and allocation on retail profit and analyze buying patterns and trends. Students develop merchandise plans and strategies for appropriate allocation of inventory. The roles and responsibilities of fashion merchandising buyers, planners, and allocators are explored. Course Equivalents: FACS 4348
Prerequisite: FAMD 2333 and FAMD 3348 (allows concurrent enrollment).

FAMD 4359. Fashion Innovation and Creativity. 3 Hours.
Students use design-based thinking to engage with the unique challenges of product innovation and processes. Students work in cross-functional teams to develop creative innovation strategies applied to the fashion system framework to impact and drive positive change. Offered spring semesters. Course Equivalents: FACS 4359
Prerequisite: FAMD 3368 (allows concurrent enrollment).

FAMD 4367. Seminar in Clothing, Textiles, and Merchandising. 3 Hours.
This course consists of inquiry in special areas of the fashion industry: marketing, production, consumption, socioeconomic and behavioral aspects of consumers. This course also will explore the link between the fashion industry and the physical and mental well-being of producers and consumers of fashion goods. Offered fall semesters. Course Equivalents: FACS 4367
Prerequisite: FAMD 2366, FAMD 3325.

Finance (FINC)

FINC 1307. Personal Finance. 3 Hours. [TCCN: BUSI 1307]
Students study the problems of personal financial management. Topics may include savings, risks, investment considerations, insurance, and taxation. Recommended for non-business majors.

FINC 3310. Financial Institutions and Markets. 3 Hours.
Students explore the process of providing external funds and finance with emphasis on the role of financial institutions and markets. The nature, participants, instruments, and relationships of the money and capital markets are examined.

FINC 3320. Business Finance. 3 Hours.
Students study financial principles as applied to corporate investment and financing decisions. The ethical role of the financial manager is examined as it relates to value creation.
Prerequisite: ACCT 2301 and MATH 1324 or equivalent.

FINC 3330. Financial Spreadsheet Modeling. 3 Hours.
This course extends coverage of financial principles and presents advanced analytical techniques. This course is designed to augment the knowledge and skills required for upper level finance courses. Topics may include financial math, mastery of spreadsheet skills, advanced capital budgeting and cash flow estimation techniques, working capital management techniques, financial statements and ratios, and advanced risk analysis.
Prerequisite: FINC 3320 (can be taken concurrently)

FINC 3340. Financial Analytics. 3 Hours.
Students develop competency with advanced skills in financial analytics, focusing on practical applications using spreadsheets, statistical software packages / languages, and AI techniques. Course topics may include learning to analyze financial data, creating dynamic financial models, and using analytics tools to make informed business decisions. Students experience hands-on learning through practical assignments and projects.
Prerequisite: FINC 3330.

FINC 3345. Financial Data Visualization. 3 Hours.
Students develop competency using simple, intermediate, and enterprise-level Business Intelligence (BI) tools on financial data. Students gain the ability to create effective financial data visualization and thereby become better data analysts and better communicators, and significantly influence financial decision making, problem solving, opportunity identification, and risk mitigation through exploratory visual analysis.
Prerequisite: FINC 3330.

FINC 4080. Independent Study. 1-3 Hours.
The student may pursue special studies for which a special course is not organized. Variable Credit (1 to 3). Course Equivalents: FINC 4380
Prerequisite: Consent of department chair.

FINC 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Finance topics and concepts in a course setting. Variable Credit (1 to 3).

FINC 4315. Entrepreneurial and Small Firm Finance. 3 Hours.
Students study the development, implementation, and control of financial plans, strategies, and policies by owner-managers of small firms. Financing alternatives for small firms are explored. The course is typically offered only during the Spring semester.
Prerequisite: FINC 3320.

FINC 4320. Commercial Bank Management. 3 Hours.
This course incorporates the roles of banks in the financial services industry and the specific functions in a bank. Case studies are utilized to reinforce the materials and provide first-hand experience about bank operations. The course also presents the roles of the regulatory authorities and their interaction with banks. Special attention is given to recent changes in bank regulation.
Prerequisite: FINC 3310 and FINC 3320.

FINC 4325. Selling Financial Services. 3 Hours.
Students study the process and principles involved in selling financial instruments and services with an emphasis on the special aspects related to selling/marketing in the banking industry. Both financial products and services will be addressed. The course is typically offered only during the Fall semester.

FINC 4330. Commercial Bank Lending. 3 Hours.
Students study theoretical issues and various applications relevant to the commercial lending activities of a bank, using finance principles. Readings and case studies are utilized to provide a contemporary perspective.
Prerequisite: FINC 3320.

FINC 4335. Financial Statement and Credit Analysis. 3 Hours.
Students study theoretical issues and various applications relevant to the analysis of financial statements, using finance and accounting principles. Readings and case studies are utilized to provide a contemporary perspective.
Prerequisite: FINC 3320 .

FINC 4340. International Finance. 3 Hours.
Students are provided with a background in international finance by examining financial circumstances/problems unique to business entities engaged in international business. Topics may include the structure and functioning of the foreign exchange market, the identification, measurement and management of foreign exchange risks, trade financing, investment analysis, financing choices, and financial control of international operations.
Prerequisite: FINC 3320.

FINC 4345. Investments. 3 Hours.
Students analyze securities markets, money market instruments, mutual funds, stocks, bonds, options, futures, and other securities. Theoretical concepts in investment analysis and trading applications are developed. Analysis of derivative securities and their use in the context of hedging are introduced.
Prerequisite: FINC 3320.

FINC 4355. Securities Analysis and Portfolio Management. 3 Hours.
This course is an advanced analysis and study of the techniques for selecting and combining securities into a portfolio. Content may include identifying appropriate investment objectives, structuring an appropriate statement of investment policy, and techniques for investment management. Emphasis is placed on diversification and risk management. This course is typically offered only during Spring semesters.
Prerequisite: FINC 4345.

FINC 4365. Seminar in Financial Derivatives. 3 Hours.
Students study options, futures, and other financial derivative contracts. The course may include the markets, valuation, and specification of these derivative contracts, and their use in corporate financial risk management. This course is typically offered only during the Fall semester.
Prerequisite: FINC 3320 .

FINC 4375. Investment Technologies. 3 Hours.
Students examine the nature and use of financial data available through industry-standard technologies. They gain the ability to analyze economic indicators, critical factors associated with the investment in and trading of currencies, fixed-income instruments, equities, commodities, and stock options, and the development and management of portfolios of investment assets. By gaining proficiency in using these technologies, students become eligible to earn industry-leading certificates.
Prerequisite: FINC 4345.

FINC 4389. Undergraduate Internship in Finance. 3 Hours.
A course is designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Finance Internship Coordinator prior to enrolling. A minimum of 150 work hours in a pre-approved finance organization. May be repeated for a maximum of 6 hours credit granted for internship.)

FINC 4390. Managerial Finance. 3 Hours.
This course includes an in-depth study of some of the tools used in financial management. Problems in the valuation of securities, capital costs, capital budgeting, risk analysis, capital structure, financial statement analysis, and dividend policy are stressed.
Prerequisite: FINC 3320.

Flute (FLUT)

FLUT 1101. Secondary Performances-Flute. 1 Hour.
Students study techniques and musicality related to flute in weekly individualized private instruction. Students admitted as a Flute primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

FLUT 1201. Individual Performances-Flute. 2 Hours.
The course consists of individualized private instruction on the flute. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

FLUT 3201. Individual Performances-Flute. 2 Hours.
The course consists of advanced individualized private instruction on the flute. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

FLUT 3202. Applied Flute with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the flute. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Food Science and Nutrition (FSCN)

FSCN 1367. Basic Nutrition. 3 Hours.
Basic principles of nutrition for personal health and wellness. Current concepts in diet adequacy and nutritional needs of individuals is stressed. The influence on healthy diet practices and their relationship to health promotion and disease prevention is the focus. Diet quality and the impact of food choices are explored. Course Equivalents: FACS 1367 .

FSCN 1441. Food Preparation And Selection. 4 Hours. [TCCN: AGRI 1329]
Scientific principles in the preparation of selected basic food products are applied. Consideration is given to the composition and properties of food, methods of preparation and processing to retain nutrients, standards for desirable products, simple meal service, and food economics. Practical application is made through laboratory experiences. (3-2). Course Equivalents: FACS 1441 .

FSCN 2362. Nutrition. 3 Hours. [TCCN: HECO 1322]
Study is made of the fundamental concepts of nutrition. The various nutrients, their sources, metabolism, physiology and interrelationships are emphasized. Healthy eating guidelines for health promotion and disease prevention and requirements for different stages of growth and development for individuals and populations are studied. (3-0). Meets requirement for pre-nursing curriculum. Course Equivalents: FACS 2362
Prerequisite: 3 hours completed in BIOL or CHEM and 3 hours completed in MATH.

FSCN 3329. Nutrition through the Lifespan. 3 Hours.
Students in this course focus on nutrient needs throughout the lifespan and the physiological basis for these needs. Instruction focuses on the interrelationships of diet, nutrition, body composition, emotional development, behavior, and aging. Factors related to the development of food behaviors at various life stages and current research trends focused on lifespan nutrition issues are explored. Offered fall semesters. Course Equivalents: FACS 3329
Prerequisite: FSCN 2362 with a C or better and 45 credit hours.

FSCN 3330. Professionalism in Dietetics. 3 Hours.
Students gain knowledge of professional practice expectations for the nutrition and dietetics practitioner level of practice. Topics will address the governance of nutrition and dietetics practice, such as the Scope of Practice for the Registered Dietitian Nutritionist and the Code of Ethics for the Profession of Nutrition and Dietetics. Other topics address state licensure and certification in the practice of nutrition and dietetics, individual National Provider Identifier (NPI), and coding and billing of nutrition and dietetics services to obtain reimbursement for services from public or private payers, fee-for-service, and value-based systems.
Prerequisite: FSCN 2362.

FSCN 3339. Community Nutrition. 3 Hours.
This course examines the role of nutrition in health promotion and disease prevention in community groups. Tools for developing community nutrition interventions are emphasized. Students will implement a community intervention using behavior theories, needs assessment, developing goals, objectives and program evaluations. Government food and nutrition programs and health care delivery system are also examined. Students will study the legislative, sociological, and scientific aspects of public and community health. Offered spring semesters. Course Equivalents: FACS 3339
Prerequisite: FSCN 2362 with a C or better and 45 credit hours.

FSCN 3367. Food Science. 3 Hours.
This course provides fundamentals of physical and chemical structures and properties of food materials and foods during harvesting, preparation, processing, preservation and storage. (1-4). Offered spring semesters. , FSCN 1441 and FSCN 2362. Course Equivalents: FACS 3367
Prerequisite: CHEM 4 hrs.

FSCN 3370. Nutritional Pathways. 3 Hours.
This advanced course establishes knowledge and understanding of nutritional concepts in the biochemical context. Biochemical, physical and metabolic functions of the nutrients; pathways of nutrients from ingestion, assimilation and metabolism; digestive and metabolic interactions between drugs and nutrients are discussed. (3-0). Offered fall semesters. Course Equivalents: FACS 3370
Prerequisite: CHEM 1412, Junior Standing, and FSCN majors only.

FSCN 3380. Advanced Nutrition. 3 Hours.
Course focus is on concepts of normal nutrition in relation to the chemistry and physiology of the human body; analysis of methods used in assessing human nutrition status; evaluation of current nutritional problems. Offered spring semesters. Course Equivalents: FACS 3380, FACS 4378
Prerequisite: FSCN 2362 with a C or better and FSCN 3370.

FSCN 3445. Quantity Food Purchasing, Preparation, & Service. 4 Hours.
Course provides experience in menu planning, food preparation, service, and use of institutional equipment in quantity food service. Principles and methods of buying, preparing, and serving rood for various types of quantity food facilities are considered. Factors affecting food quality, food costs, and quantity food production as related to the time factor are emphasized. Lab experience is arranged with SHSU Dining Services. Students must complete a minimum of 24 lab hours by participating in the lab activities and observing personnel, equipment, layout, food safety, food production and service procedures. (2-2). Course Equivalents: FACS 3445
Prerequisite: FSCN 1441 or FSMG 2441, 45 hours completed.

FSCN 4360. Clinical Dietetics I. 3 Hours.
Study of medical nutrition therapy. Course includes current diet manipulations for disease conditions including the provision of enteral and parenteral nutrition. Nutritional adequacy for disease conditions and the impact of sociological, economic, psychological factors on nutritional status is addressed. Case studies and work with clients to gain hands-on knowledge is required. Offered fall semesters. FSCN majors only. Course Equivalents: FACS 4360
Prerequisite: FSCN 3380 and FSCN 4371, FSCN majors only.

FSCN 4361. Clinical Dietetics II. 3 Hours.
Continuation of the study of the applications of medical nutrition therapy from FACS 4360. It includes current diet therapy for a variety of disease conditions including the provision of enteral and parenteral nutrition. Nutritional adequacy for disease conditions and the impact of sociological, economic, psychological factors on nutritional status is addressed. It includes class discussions, case studies and work with clients to gain hands-on knowledge. Students utilize the scientific literature to understand evidence-based practice. Offered spring semesters. FSN majors only. Course Equivalents: FACS 4361
Prerequisite: FSCN 4360.

FSCN 4370. Advanced Food Service Organization and Management. 3 Hours.
Course is focused on principles of organization and management as they relate to food service systems; development of managerial and motivational skills; communications; decision making; management by objectives. (3-0). Offered spring semesters. Course Equivalents: FACS 4370
Prerequisite: FSCN 3445.

FSCN 4371. Nutrition Assessment. 3 Hours.
A study of nutrition assessment methods for determining nutrition diagnoses and care. Skills development in obtaining nutrition histories, diet analysis, motivational interviewing, body composition and performing nutrition-focused physical examinations. Students will learn to develop nutrition prescriptions and counseling plans as well as documentation of nutrition care. Experiential learning is utilized. Offered spring semesters. Course Equivalents: FACS 4371
Prerequisite: FSCN 3370 or concurrent enrollment, FSCN majors only.

FSCN 4372. Nutrition Counseling and Education. 3 Hours.
Students gain skills in nutrition counseling, education, and communication to improve food and nutrient intake for health, wellness, and medical nutrition therapy in diverse individuals and groups across the lifespan. Opportunities for student demonstration will reinforce methods to facilitate behavior change and/or behavior modification.
Prerequisite: FSCN 3329.

FSCN 4373. Cultural Food Practices. 3 Hours.
Cultural food practices from around the world will be studied. Students will learn various nutrition education strategies used to make effective dietary changes in keeping with cultural norms. An exploration and appreciation of how cultural factors affect our food patterns will assist in developing cultural competency. Offered fall semesters. Course Equivalents: FACS 4373
Prerequisite: FSCN 2362, FSCN 3339, and FSCN 3380.

FSCN 4374. Research in Nutrition Science. 3 Hours.
Students gain required knowledge and skills in research methodology in nutrition science, interpretation of research literature, and integration of research principles into evidence-based practice guidelines for medical nutrition therapy. Students learn to integrate scientific information and translate nutrition research into practice while developing effective and professional oral and written communication and documentation. Students gain knowledge to locate, interpret, evaluate, and use professional literature to make ethical, evidence-based practice decisions; select and use appropriate information technologies to locate and apply evidence-based guidelines and protocols; and apply critical thinking skills.
Prerequisite: CHEM 2123 and CHEM 2323, Junior Standing.

Food Service Management (FSMG)

FSMG 1331. Introduction to the Hospitality Industry. 3 Hours.
An overview of the hospitality industry, this course includes restaurants, hotels and resorts. Includes historical perspective, analysis of the industry in terms of professional opportunities and the future outlook for the industry. (3-0). Offered fall semesters. Course Equivalents: FACS 1331 .

FSMG 2441. Meal Management in Hospitality. 4 Hours.
This course includes choice, purchase, preparation and service of meals in hospitality settings. Through laboratory experiences emphasis is given to table settings and appointments, various forms of meal service and special occasion functions. The importance of acceptable social procedures and aesthetic values related to the above activities are stressed. (3-2). Offered spring semesters. Course Equivalents: FACS 2441 .

FSMG 3334. Lodging Operations. 3 Hours.
A study is made of principles involving basic operations of hospitality facilities including guest expectations, management of services, budget control, personnel management and security. (3-0). Offered spring semesters. Course Equivalents: FACS 3334
Prerequisite: FSMG 1331.

Forensic Science (FORS)

FORS 3331. Foundations of Applied Anthropology. 3 Hours.
This is an introductory course on the study of the biology of humans from an applied anthropological perspective. It is a foundation course for students interested in careers in applied anthropology, biological or forensic anthropology, nursing, medicine, or crime scene investigation. Students are introduced to all four fields of anthropology: archaeology (prehistoric and historic human activity), cultural anthropology (medical practices in past and present cultures), biological anthropology (primates, basic genetics, human evolution, human biological diversity, and forensic anthropology), and linguistics (language and communication and forensic linguistics) and how these fields are intertwined and applied in a variety of disciplines. The course content focuses predominantly on biological aspects of man and in human society. Course Equivalents: CRIJ 3331 .

FORS 3366. Forensic Science. 3 Hours.
Students are introduced to a wide variety of forensic science disciplines. Students gain basic knowledge of evidence handling, fingerprints, impression evidence, trace materials, firearms and toolmarks, serology and forensic DNA, controlled substances and toxicology. Course Equivalents: CRIJ 3366 .

FORS 3380. Introduction to Forensic Chemistry. 3 Hours.
Students are provided an introduction to forensic chemistry. Current practices, technologies, and techniques are discussed for some of the most common forensic chemistry disciplines.
Prerequisite: CHEM 1411 and FORS 3366.

FORS 3420. Human Osteology: Analysis of Human Bone. 4 Hours.
Students thoroughly examines the human musculoskeletal system, covering the structure and function of bone including bone growth and development and the distinction between juvenile and adult skeletal elements. The course is designed to equip the student with thorough knowledge of the normal appearance of the human skeleton and its variation caused by population variation, genetic disorders, diseases, or trauma. Course Equivalents: CRIJ 3420 .

FORS 4077. Special Topics in Forensic Science. 1-4 Hours.
This course is designed to give advanced undergraduate students academic flexibility by allowing them to take structured courses on emerging topics or other matters about which there are no courses already approved in the catalog. Variable Credit (1-4).
Prerequisite: Senior standing.

FORS 4310. Physical Evidence Techniques. 3 Hours.
Students are provided an overview of physical evidence concepts and identification techniques. Pattern recognition of physical evidence, including fingerprints, bloodstains, gunshot residue, tire prints, shoeprints, fire investigation, firearms, and digital evidence will be discussed. The use of electronic databases in pattern evidence comparison are addressed. Prerequistie: FORS 3366.

FORS 4317. Applied Statistics for Forensic Science. 3 Hours.
Students apply statistical methods to forensic science problems. Concepts including data distributions, sampling, significance and confidence intervals, likelihood ratios, probability, conditional probability, Bayes' theorem, and odds may be included. Measurement uncertainty and metrological traceability are also covered to meet forensic laboratory accreditation requirements. Statistics are applied to problems relating to topics such as forensic toxicology, seized drugs, trace evidence, firearms, and questioned documents.

FORS 4320. Fundamentals of Forensic Biology. 3 Hours.
Students explore fundamental principles of forensic biology including serology and DNA. Current technologies and procedures used within the field of forensic biology are discussed.
Prerequisite: FORS 3366.

FORS 4330. Fingerprint Examination. 3 Hours.
Students learn the process of fingerprint identification, including the nature, physiological properties and morphogenesis of fingerprints. Students cover the different methods of physical and chemical development of fingerprints from various surfaces, the interpretation of fingerprint patterns and their classification, as well as the methodology of Analysis, Comparison, Evaluation and Verification (ACE-V) that fingerprint examiners apply in their casework.
Prerequisite: FORS 3366 & FORS 4310.

FORS 4343. Advanced Techniques in Forensic Anthropology. 3 Hours.
Students are provided practical experience in the application of various methods that aid in the identification of unknown skeletal remains, such as geometric morphometrics and digital imaging. Students gain understanding in the histology and biomechanics of bone and identify and differentiate bone pathology from bone trauma. In addition, students are trained in proper writing in forensic anthropology and manuscript preparation, including photography of bone trauma and pathology.
Prerequisite: FORS 4442.

FORS 4364. Crime Scene Investigation Techniques. 3 Hours.
Students are provided a foundational overview of criminalistics from the standpoint of crime scene investigation. Theoretical understanding and mock experience in crime scene processing is provided. Basic criminalistic and laboratory techniques are introduced and discussed. Course Equivalents: CRIJ 4364
Prerequisite: FORS 3366.

FORS 4380. Ethics and Professional Practice. 3 Hours.
Students are provided an overview of ethics and professional practice in forensic science. Ethical dilemmas, bias, and organizational culture are explored.
Prerequisite: FORS 3366.

FORS 4442. Introduction to Forensic Anthropology. 4 Hours.
Students are equipped with the methodologies and applications of forensic anthropology. The course includes extensive hands-on exercises working with the human skeletal system. Students learn and apply the methods used in building the human biological profile, which includes the determination of sex, age, ancestry, and stature based on skeletal features. Students learn the biomechanics of bone and identify skeletal pathologies and/or trauma. Course Equivalents: CRIJ 4442
Prerequisite: FORS 3420.

French (FREN)

FREN 1411. Elementary French. 4 Hours.
Students who have no previous instruction in French study an introduction to French pronunciation, vocabulary, and basic language codes stressing an oral approach to the language with special emphasis on conversation and oral drill. A weekly one-hour language laboratory is required. Competent speakers of French or those with considerable knowledge of the language should take the CLEP prior to registering. Grade of C or better required in FREN 1411 in order to continue to FREN 1412. Instruction is in French.

FREN 1412. Elementary French. 4 Hours.
This course is a continuation of FREN 1411. Students discuss and drill language codes with more complexity. Stress is placed on aural and oral skills. A one-hour language laboratory period weekly is required. Competent speakers of French or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411 or equivalent.

FREN 2311. Intermediate French I. 3 Hours. [TCCN: FREN 2311]
A continuation of FREN 1412. Students study readings of medium difficulty as a basis for reading and aural comprehension as well as for oral communication. Competent speakers of French or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411 and FREN 1412 or equivalent.

FREN 2312. Intermediate French II. 3 Hours. [TCCN: FREN 2312]
A continuation of FREN 2311. Students focus on practical needs for communication. Competent speakers of French or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, and FREN 2311 or equivalent.

FREN 3362. Survey of French Literature I. 3 Hours.
Students in this course examine topics and texts in French literature from pre-medieval to the seventeenth centuries. Students read, analyze and discuss the texts that have shaped European history, society, and culture. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 3363. Survey of French Literature II. 3 Hours.
Students in this course examine topics and texts in French literature from the eighteenth century to the present. Students read, analyze, and discuss the texts in French that have shaped European history and society, and culture. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 3365. French Grammar And Stylistics. 3 Hours.
Students focus on fluent usage of oral and written French. Students intensively study selected written work with the purpose of mastering mid-level proficiency skills. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 3367. French Phonetics and Conversation. 3 Hours.
Students study the basic theory of French pronunciation and intonation. With ample opportunity for drill, students achieve an intermediate level of oral proficiency. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 3380. French Culture & Civilization. 3 Hours.
Students portray the overall picture of the role played by French culture and civilization throughout the world. This course will provide cultural background for French majors or minors. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 4075. Individual French Readings. 1-6 Hours.
Individual students who may need study of a particular era or genre or author can enroll. Enrollment in this course is restricted and approval for such must be obtained from the Program Coordinator. The course may be repeated for credit as content varies. Variable Credit (1-3). Course Equivalents: FREN 4375
Prerequisite: Advanced standing in French or consent of instructor and department chair.

FREN 4364. Modern French Usage and Conversation. 3 Hours.
Students of all levels, including those seeking oral proficiency focus on extemporaneous speech and conversation dealing with modern topics. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 4370. Seminar in Selected Topics of Literacy, Language, and Civilization. 3 Hours.
Students conduct an in-depth study of a selected topic by which French majors and minors, tracking specific skills, may acquire the necessary knowledge of francophone culture and/or the ability to speak, read, and write the French language at an advanced level. The topic to be explored will change from semester to semester. The course may be repeated for credit as the content varies.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 4377. French for Business Communication. 3 Hours.
Students focus on vocabulary, expressions and language used in oral and written business communication in French. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 4379. Francophone Literature. 3 Hours.
Students survey the major topics in Francophone literatures and film from the French-speaking regions of the world. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 4380. French in North America. 3 Hours.
Students examine linguistic variations of French in North America by examining phonological, lexical, syntactic, and morphological variations. North American Francophone communities, such as Quebec, Caribbean Islands (e.g., Martinique, Guadeloupe, Haiti), and Louisiana, are examined through history, social context, political situations, and demographic context. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 4381. Translation and Interpretation. 3 Hours.
Students examine translation and interpretation strategies from French into English and vice-versa. Students analyze and practice methods, techniques, and practical situations where French translation and interpretation into English, and English translation and interpretation into French, are required for communication. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

FREN 4382. French for Healthcare. 3 Hours.
Students examine vocabulary and idiomatic expressions used in healthcare. Students acquire fluency in oral and written French in topics relevant to healthcare professionals, such as the human body, diseases, illnesses, therapies, medication, and healthcare administration. Instruction is in French.
Prerequisite: Grade of C or better in FREN 1411, FREN 1412, FREN 2311, and FREN 2312 or equivalent.

Geography (GEOG)

GEOG 1300. People, Places, and the Environment. 3 Hours. [TCCN: GEOG 1302]
Students are introduced to the discipline of geography, or the study of the world from a spatial perspective. This includes an examination of both the cultural and physical environments and the social, economic, political, and environmental factors that influence human activities and societies across the globe. Students will also be introduced to geospatial technologies (e.g., GPS and Google Satellite Imagery) currently utilized to investigate geographical issues. The course may involve field trips that incorporate course material. Course Equivalents: GEOG 1321 .

GEOG 1401. Weather and Climate. 4 Hours. [TCCN: GEOL 1447]
The basic concepts of meteorology and climatology are introduced. Atmospheric temperature, pressure, winds, moisture, and air masses and storms are systematically covered, followed by an overview of the major climates and ecosystems of the earth. Environmental problems related to weather, climate, and ecosystems are considered throughout. The lab portion of weather and climate is an activity-related treatment of the basic components of meteorology and climatology. Specific topics covered are similar to the lecture. Course Equivalents: GEOG 1301 .

GEOG 2341. Physical Geography. 3 Hours. [TCCN: GEOG 1301]
Students examine the basic physical and biological systems of planet Earth, including the atmosphere, oceans, landforms, soils, and ecosystems. Emphasis is placed on understanding the distribution, scale, and dynamic inter-relationships and processes, which shape the physical and biological landscape as well as the ways in which humans alter the environment and are, in turn, affected by the environment.

GEOG 2355. World Regional Geography: Europe, Asia, and Australia. 3 Hours. [TCCN: GEOG 1303]
Students are provided a general overview of the land and people. Topics discussed may include the physical environment, cultural characteristics and the various ways people live and make their living. Attention is focused upon the relationships which exist between location, the physical environment and human activity. Examples of countries covered are Russia, Germany, France, China, Japan, and United Kingdom.

GEOG 2356. World Regional Geography: Latin America, Africa, South Asia. 3 Hours. [TCCN: GEOG 1303]
Students are provided a general overview of the land and people. Topics discussed may include the physical environment, cultural characteristics and the various ways people live and make their living. Attention is focused upon the relationships which exist between location, the physical environment and human activity. Examples of countries covered are Mexico, Brazil, Argentina, Egypt, Republic of South Africa, Israel, Iran, and India.

GEOG 2364. Geo-Spatial Technology. 3 Hours.
Students are introduced to technologies, such as geographic information systems (GIS) and global positioning systems (GPS), that are used to map and study the Earth. The emphasis is placed on the application of these technologies in areas of environmental and natural resources management, business and marketing, and law enforcement and national security. Course Equivalents: GEOG 3364 .

GEOG 2464. Introduction to Geographic Information Systems (GIS). 4 Hours.
Students are introduced to the basics of geographic information systems (GIS) with an emphasis on environmental and resource management applications. Students design and develop a digital spatial database, perform spatial analyses, create hardcopy maps, and generate reports. Students are introduced to several GIS software packages. This course does incorporate a laboratory component. Course Equivalents: GEOG 4464 .

GEOG 3301. Environmental Geography. 3 Hours.
Environmental Geography is a study of the spatial dimensions of the interaction between humans and their physical environment. Key principles of how the earth and the earth's ecosystems work, how they are interconnected, and how humans use and impact these natural resource systems will be introduced. Course Equivalents: GEOG 2301 .

GEOG 3310. Sustainable Development. 3 Hours.
Sustainable development is both a fundamental concept used to understand the modern world and a tool to address global issues. Students examine this concept using the framework of geography and a global perspective. Students focus on the intersections of environment and society, including environmental, economic, and social barriers to development, environmental and social impacts of development, and the role of environmental sustainability in achieving global development goals.
Prerequisite: 60 credit hours and 3hrs of GEOG.

GEOG 3320. Sustainability & Environment. 3 Hours.
Students investigate and assess the impacts that human activity can have on the environment and will seek to identify innovative, cross-disciplinary solutions to many of the world's most pressing environmental challenges. Given that Sustainability Science involves making decisions and taking actions that are in the interest of protecting the natural world, course topics will include current sustainability issues related to population growth, agriculture, natural resources, energy usage, habitat degradation and ecological economics. This course is typically be offered every other fall semester. Also offered as BIOL 3320. Course Equivalents: BIOL 2320, BIOL 3320, GEOG 2320
Prerequisite: BIOL 1401 or (60 credit hours and 3 hours of GEOG).

GEOG 3340. Meteorology. 3 Hours.
Students explore weather phenomena and the atmospheric processes that generate them as well the methods used to measure the controlling factors. Topics may include atmospheric thermodynamics, black body radiation, weather instruments, weather forecasting, satellite imagery, Doppler radar, and numerical models.
Prerequisite: GEOG 1401; MATH 1314 or MATH 1410; or permission of instructor.

GEOG 3342. Climatology. 3 Hours.
Students explore the meaning of the term climate, processes that affect climate, how Earth’s climate has changed, and effects of climate change on humans and the environment. Topics may include characteristics of Earth’s atmosphere, climate teleconnections, climate interactions with other components of the Earth system, water cycle, climate classifications, potential causes of climate change, climate modeling, and climate policy.
Prerequisite: GEOG 1401; MATH 1314 or MATH 1410; or permission of instructor.

GEOG 3350. Cultural Geography. 3 Hours.
Students focus on the concept of culture from a spatial or geographical perspective, examining culture as it relates to the geographic landscape. Topics may include the spatial dynamics of language, religion, race, ethnicity, music, sport, folk and popular cultures, and the built environment. In addition, students are provided an examination of symbolic landscapes, contested spaces, subaltern geographies, representations of place in film and literature, gendered spaces, and place-situated identities.

GEOG 3352. Tourism Geography. 3 Hours.
Students are provided an introduction to the geography of tourism. Topics may include the historical development of travel and tourism, place promotion, location of tourism destinations, geographic resources of tourism, and the physical and social outcomes of tourism.
Prerequisite: GEOG 1321 or GEOG 2355 or GEOG 2356.

GEOG 3358. Historical Geography of the United States. 3 Hours.
Students survey the changing geography of the United States including initial exploration, European perception of North America, geographical expansion of the United States to the Pacific, and geographical factors underlying the urbanization and industrialization of the nation.

GEOG 3359. Regional Geography: the United States and Canada. 3 Hours.
Students are provided a general overview of the land and people of the United States and Canada. Topics covered may include the physical environment (weather patterns, landforms and water resources), cultural differences, and the various ways people live and make their living. Attention is focused upon the relationships which exist between location, the physical environment and human activity. This course is available on-line and via traditional classroom delivery.

GEOG 3362. Map Use & Map Interpretation. 3 Hours.
Students learn how to use and interpret topographic maps and helps them to develop an appreciation of their use as tools by geographers. Students are familiarized to map projections and their limitations, various coordinate systems, map measurements, GPS, and the basics of air photo interpretation.

GEOG 3363. Computer Cartography. 3 Hours.
Fundamentals of thematic mapping, including appropriate usage, projections, base-map compilation, data measurement and analysis, map design and construction, color principles, and other cartographic concepts are emphasized.
Prerequisite: GEOG 2464.

GEOG 4075. Readings in Geography. 1-3 Hours.
A course designed specifically for advanced students of geography who are capable of independent study. Registration is permitted only upon approval of the program coordinator. This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog. Variable Credit (1-3). Course Equivalents: GEOG 4375 .

GEOG 4076. Special Topics. 1-3 Hours.
This course of faculty-led study is designed to explore geographical topics and concepts in a course setting. Students engage in either an in-depth, interdisciplinary study of a particular geographic region in the world, or a systematic study of a geographic topic. The course is repeatable for different regions or different topics. Variable Credit (1 to 3).
Prerequisite: GEOG 1321,or GEOG 2355, or GEOG 2356, or permission of instructor.

GEOG 4100. Earth and Environment Seminar. 1 Hour.
Students majoring in Environmental Science, Geography, or Geology discuss environmental problems and career opportunities with professionals in the field.
Prerequisite: Senior Standing.

GEOG 4311. GIS in Law Enforcement. 3 Hours.
Students learn applications of geospatial technologies in law enforcement. Topics include methodologies and characteristics of GIS, intelligence, and crime incident data, GPS, imagery, heat mapping, and change detection related to law enforcement.
Prerequisite: GEOG 2464.

GEOG 4330. Hydrology and Water Resources. 3 Hours.
Students examine the hydrologic cycle with an emphasis on surface water processes. Specific topics may include precipitation, infiltration, evapotranspiration, fluvial processes, and sediment transport. Using the physical concepts and equations related to these topics, students analyze water-related hazards, including flooding and drought, as well as water management and policy. While Texas-specific issues are emphasized, students explore both U.S. and international geographies of hydrology, water resources, and water management. Course Equivalents: GEOG 4430
Prerequisite: (GEOL 1403 or GEOG 2341 or GEOL 1405 or GEOG 4432) and (MATH 1314 or MATH 1342 or MATH 1420); or permission of instructor.

GEOG 4331. Conservation of Natural Resources. 3 Hours.
Students explore the impact of human activities on the natural world, environmental protection, and the wise use of the earth's resources. Topics may include: environmental history, economics, law and ethics, ecology, population issues, agriculture and grazing, soil conservation, forestry, endangered and exotic species, water availability and water pollution, hazardous and solid waste management, air pollution (including global warming), energy resources (fossil, nuclear, and renewable), and the impact of technology on the future health of the planet.

GEOG 4333. Field Studies. 3 Hours.
Use of geospatial technologies such as Global Positioning Systems (GPS), laser surveying, digital aerial photography and computerized mapping (GIS) are stressed. Applications of these technologies will include surveying, water resources, forestry, soil science, wetlands delineation, urban and transportation planning, automobile accident reconstruction and crime scene evidence recovery. Half of the class meetings take place at a variety of outdoor locations.

GEOG 4351. Economic Geography. 3 Hours.
Students examine of the importance of location to human activity. The locational characteristics of primary, secondary, and tertiary economic activities are examined, with an emphasis on land use and urban form, its theory, and descriptive analysis as well as an explanation of market forces and their consequences. Writing enhanced. Course Equivalents: GEOG 3351 .

GEOG 4356. Urban Geography. 3 Hours.
Students are introduced to the scope and nature of urban areas from a geographical or spatial perspective. Students focus on the spatial structure of urban areas and examine the geography of cities using an urban systems approach. Emphasis is placed on the North American city and its problems: land use, transportation, political fragmentation, physical environment, demographic and social change, economic dynamics, residential patterns, urban culture, poverty, etc. Trends in urbanization in both developed and developing worlds are discussed. Writing enhanced. **Prerequisite:** GEOG 1321 or GEOG 2355 or GEOG 2356.

GEOG 4357. Population Geography. 3 Hours.
Students examine spatial patterns and processes influencing the distribution, density, composition, and growth in human populations. Students focus on migration, and to a lesser extent, on fertility and mortality together with socio-economic, political, and environmental causes and consequences of population dynamics that vary between regions and over time. Writing enhanced.
Prerequisite: GEOG 1321 or GEOG 2355 or GEOG 2356.

GEOG 4358. Geography of Texas. 3 Hours.
Students engage in a survey of the regional geography of Texas. Consideration is given to the significance of primary and secondary activity within the state, urbanization, and potential for development.

GEOG 4359. Transportation Geography. 3 Hours.
Students are introduced to the concepts, theories, and methods of transportation geography. Students cover transportation infrastructure, modes of terminals, transportation economics, urban transportation, logistics, and transportation planning. In addition, students course cover various analytical techniques applied in transportation analysis, such as network analysis, gravity models, location-allocation modeling, and geographic information systems in transportation studies.
Prerequisite: GEOG 1321 or GEOG 2355 or GEOG 2356 or permission of instructor.

GEOG 4360. Cultural Field Study. 3 Hours.
Students focus on a number of topics and concepts that fall within the sub-discipline of cultural geography. Students engage in place-based learning, with the primary emphasis being a field experience that directly exposes students to processes and concepts introduced and discussed in the classroom. These may include migration, urbanization, economic transformations, demographic change, social and technological change, racial segregation, civil rights, heritage tourism and other topics. Writing enhanced.
Prerequisite: 6 GEOG advanced hours or permission of Instructor.

GEOG 4361. Geographic Information Systems for Public Health. 3 Hours.
Students cover the theory and application of Geographic Information Systems (GIS) for public health. Topics include an overview of the principles of GIS in public health and practical experience in its use. In addition, students cover the application of GIS mapping and analyzing the geographic distribution of populations at risk and health outcomes. The practical component involves the use of desktop GIS software packages.

GEOG 4365. Applied Geographic Information Systems (GIS). 3 Hours.
Applied GIS is designed to meet the needs for a highly applied course with realistic practical training extending the fundamental principles learned in Introduction to Geographic Information Systems (GEOG 2464). The application of GIS technology to mapping, modeling and management of large data bases are emphasized.
Prerequisite: GEOG 2464.

GEOG 4367. GIS Programming. 3 Hours.
Students learn computer programming principles and their applications in a Geographic Information Systems (GIS) environment, as well as modern programming languages for working within a variety of GIS software platforms. Students master the use of programming scripts to manipulate basic mapping objects, complete geo-processing tasks, debug and error handling, and create custom geospatial tools.
Prerequisite: GEOG 2464 or approval of instructor.

GEOG 4374. Geostatistics. 3 Hours.
Students apply statistical concepts and geospatial computing tools to analyze data. Topics may include geospatial patterns and trends, spatial autocorrelation, spatial regression, interpolation techniques, and reliability of environmental and geoscience data. An emphasis is placed on applied techniques and current software tools.
Prerequisite: GEOG 2464 and one of MATH 1342 or MATH 3379.

GEOG 4399. Environmental and Geoscience Internship. 3 Hours.
Students apply environmental, geoscience, and/or GIS skills in a work environment. Students work with a faculty advisor and their employer to complete employer-assigned internship requirements.
Prerequisite: Junior Standing.

GEOG 4432. Geomorphology. 4 Hours.
Students focus on surficial processes and the resulting landforms. Specific topics may include landscape processes associated with streams, glaciers, wind, coasts, mass wasting, weathering and soil development, and geologic structure. Surface processes are also discussed in the context of human impacts and the environment. Labs emphasize landform analysis and applied problems through interpretation of topographic maps and aerial imagery and field trips. Two-hour laboratory.
Prerequisite: (GEOL 1403 or GEOL 1405 or GEOG 2341) and (MATH 1314 or MATH 1342 or MATH 1420 or MATH 3379); or permission of instructor.

GEOG 4468. Remote Sensing. 4 Hours.
Students are introduced to the methods used to analyze and interpret aerial photography and satellite imagery. Emphasis is placed on multispectral satellite imagery, digital image processing, and land use and land cover analysis using remotely sensed imagery. Lab included.
Prerequisite: GEOG 2464.

Geology (GEOL)

GEOL 1403. Physical Geology. 4 Hours. [TCCN: GEOL 1403]
Students are introduced to the materials, processes, and structure of the earth. Topics may include earthquakes, volcanoes, plate tectonics, mountain building, weathering and erosion, glaciation, oceans, and mineral resources. The laboratory taken concurrently with the lecture includes experiences that involve the study of rocks, minerals, and map interpretations. Course Equivalents: GEOL 1303 .

GEOL 1404. Historical Geology. 4 Hours. [TCCN: GEOL 1404]
Students are introduced to the history of the earth and its past inhabitants, including a section on the dinosaurs and their extinction. Students are given a broad overview of the tectonic evolution of the planet, indicated by various major mountain-building events; ancient environments and changing sea levels recorded in sedimentary deposits; and the evolution of life represented by the fossil record. The laboratory taken concurrently with the lecture includes the study of common animal and plant fossils and problems that illustrate practical applications of geological principles. Course Equivalents: GEOL 1304 .

GEOL 1405. Geologic & Environmental Hazards. 4 Hours. [TCCN: GEOL 1405]
Students are introduced to the interrelationship between humans and the geologic environment, which includes the potential hazards posed by geologic processes and the planning that needs to be done to lessen their impact. It is designed to give students an overview of the fundamental Earth Science and natural hazards, including causes and effects of earthquakes, tsunamis, volcanoes, floods, landslides, hurricanes, climate change, etc. Earth materials and their uses by humans are also emphasized. Discussion will focus on personal and societal adjustments to these hazards. Course Equivalents: GEOL 1305 .

GEOL 1436. Foundations of Science. 4 Hours.
Students focus on the nature of science as a reliable method of acquiring knowledge about the natural world. Students learn how to apply key scientific facts, concepts, laws and theories to distinguish science from non-science, bad science, and psedoscience by analyzing a variety of claims and case studies. By employing an innovative, interdisciplinary approach to science education, this course is designed to increase science literacy and critical thinking skills for introductory-level science students. Students must enroll concurrently in the corresponding lab for this course. Course Equivalents: BIOL 1436, GEOG 1436, ISCI 1436 .

GEOL 3301. Field Methods. 3 Hours.
Students are provided experience with common field techniques used in geologic mapping and geologic investigations. An emphasis is placed on techniques and skills used for systematic field observations and data collection for construction of stratigraphic columns, structural cross-sections, and the development of geologic maps. The course has a mandatory two-week field component.
Prerequisite: GEOL 1304/GEOL 1104 or GEOL 1404 and GEOL 1303/GEOL 1103 or GEOL1403 or GEOL 1305/GEOL 1105 or GEOL 1405.

GEOL 3326. Environmental Geology. 3 Hours.
Students are introduced to geological processes and materials, and how they affect people and the environment. Specific topics include earthquakes, volcanism, mass wasting, floods, coastal hazards, and climatic change. Optional topics may include such items as energy and water resources, subsidence, and waste disposal.
Prerequisite: GEOL 1303/GEOL 1103 or GEOL 1403 or GEOL 1305/ GEOL 1105 or GEOL 1405.

GEOL 3330. Oceanography. 3 Hours.
Students engage in a survey of the general principles of oceanography is made. The geology of ocean basins, tide-water processes and the chemistry of sea water are studied. Biophysics of the sea and environmental problems are considered.
Prerequisite: GEOL 1303/1103 or GEOL 1403 or GEOL 1305/1105 or GEOL 1405.

GEOL 3332. Forensic Geology. 3 Hours.
Students cover many of the basic geological principles and techniques used in solving crime. A significant part of the course involves case studies as well as hands-on field and laboratory analyses.
Prerequisite: GEOL 1303, GEOL 1103 or GEOL 1403 plus CHEM 1311, CHEM 1111 or CHEM 1411 plus CHEM 1312, CHEM 1112, or CHEM 1412, and MATH 1316.

GEOL 3404. Mineralogy. 4 Hours.
Students cover crystallography, genesis of minerals, identification and classification of minerals, and optical mineralogy. Includes lab work.
Prerequisite: GEOL 1303/GEOL 1103 or GEOL 1403 or GEOL 1305/GEOL1105 or GEOL 1405 and GEOL 1304/GEOL 1104 or GEOL 1404 and CHEM 1311/CHEM 1111 or CHEM 1411 and CHEM 1312/CHEM 1112 or CHEM 1412 and MATH 1316 or MATH 1410.

GEOL 3405. Petrology. 4 Hours.
Students engage in the classification, origin, occurrence and associations of igneous, sedimentary, and metamorphic rocks. Includes optical petrology using thin sections.
Prerequisite: GEOL 3404.

GEOL 3415. Paleontology of Invertebrates. 4 Hours.
Students focus on the fundamental concepts, principles, and methods involved in deciphering the origin, development, and extinction of past life as revealed through the study of invertebrate fossils.
Prerequisite: GEOL 1304/GEOL 1104 or GEOL 1404.

GEOL 4095. Special Topics in Geology. 1-3 Hours.
Individual study in special areas of geology. Topic content is usually selected and agreed upon by the student and a member of the Geology faculty. Sometimes special topics courses are offered by the Geology faculty. This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog.. Variable Credit (1-3). May be repeated for credit. May be repeated for credit. Course Equivalents: GEOL 4395
Prerequisite: Prerequisites and credit will be determined by the faculty member.

GEOL 4100. Earth and Environment Seminar. 1 Hour.
Students majoring in Environmental Science, Geography, or Geology discuss environmental problems and career opportunities with professionals in the field.
Prerequisite: Senior Standing.

GEOL 4304. Geochemistry. 3 Hours.
Students are provided a general introduction to all types of geochemistry that includes a discussion of the underlying chemical concepts, with an emphasis on the applications to geological environments. The chemical concepts include isotopic chemistry, thermodynamics, crystal chemistry, and aqueous solutions. The geological metasomatism, geothermobarometry, and environmental geochemistry. and C or better in CHEM 1412, and C or better in MATH 1420, and C or better in GEOL 1403 or GEOL 1405. Course Equivalents: GEOL 3304
Prerequisite: GEOL 3404 OR 60 hrs.

GEOL 4312. Economic Geology. 3 Hours.
Students explore the origin and occurrence of economically important minerals. A portion of the course is devoted to petroleum.
Prerequisite: GEOL 1403 or GEOL 1405 plus GEOL 1404.

GEOL 4320. Petroleum Geology. 3 Hours.
Students review the origin and development of petroleum and natural gas deposits, and surveys the various tools used to prospect for commercial deposits of oil and natural gas.
Prerequisite: GEOL 1403 or GEOL 1405 plus GEOL 1404.

GEOL 4331. Geology of North America. 3 Hours.
Students study of the geologic history of the continent of North America. Topics may include paleogeography, major depositional areas and stratigraphic units, and paleotectonics.
Prerequisite: GEOL 1403 or GEOL 1405 plus GEOL 1404.

GEOL 4337. Plate Tectonics. 3 Hours.
Students are introduced to the movement of lithospheric plates. Topics to be covered may include earthquakes, volcanism, seismic tomography, the evolution of continents and ocean basins, and the influence of the earth's interior on these processes. Lecture only.
Prerequisite: GEOL 1303/1103 or GEOL 1403 or GEOL 1305/1105 or GEOL 1405 and GEOL 1304/1104 or GEOL 1404.

GEOL 4360. Field Geology. 3 Hours.
These courses will consist of on-site studies in structure, stratigraphy, petrology and paleontology. Field trips are taken to appropriate areas in Texas and/or surrounding states. T
Prerequisite: Senior standing.

GEOL 4361. Field Geology. 3 Hours.
These courses will consist of on-site studies in structure, stratigraphy, petrology and paleontology. Field trips will be taken to appropriate areas in Texas and/or surrounding states. T
Prerequisite: Senior standing.

GEOL 4399. Environmental and Geoscience Internship. 3 Hours.
Students apply environmental, geoscience, and/or GIS skills in a work environment. Students work with a faculty advisor and their employer to complete employer-assigned internship requirements.
Prerequisite: Junior Standing.

GEOL 4400. Stratigraphy & Sedimentation. 4 Hours.
Students study the principles and methods used in describing, classifying, and correlating strata, which includes studies of modern and ancient depositional environments. Lab/field work included.
Prerequisite: GEOL 3404.

GEOL 4402. Structural Geology. 4 Hours.
Students cover the principles of deformation of the Earth's lithosphere with emphasis on mechanical principles, identification and interpretation of structures from the microscopic scale to the scale of mountain belts. Other topics may include regional tectonics and application in petroleum exploration. Lab work focuses on graphical and quantitative techniques of analyzing geologic structures.
Prerequisite: GEOL 4400, PHYS 1301, PHYS 1101, and MATH 1316.

GEOL 4413. Methods in Applied Geophysics. 4 Hours.
Applied Geophysics involves measurements made on the surface of the Earth that are interpreted to yield the distribution of subsurface properties, particularly those having economic and engineering importance. Students are provided an introduction to the latest methods used to map the distribution of physical properties beneath the surface of the Earth and is widely recommended for students who plan to pursue careers that directly or indirectly involve subsurface imaging and analysis.
Prerequisite: GEOL 1403 or GEOL 1405, MATH 1420, PHYS 1301, PHYS 1101, PHYS 1302, PHYS 1102, or by permission of instructor.

GEOL 4414. Sea Level Change and the Geological Record. 4 Hours.
Students examine the various modern causes of relative and absolute sea level change. In addition, students engage in an analysis of ancient geological sedimentary and stratigraphic records from the perspective of what they reveal about rates and scales of sea level change in the past as well as implications for the future. Sequence stratigraphic concepts (commonly used in the petroleum industry) are critically examined via field-based and paper and core-based studies.
Prerequisite: GEOL 1403 or GEOL 1405 plus GEOL 1404.

GEOL 4426. Hydrogeology. 4 Hours.
Students are introduced to the study of groundwater and its role in the hydrologic cycle. Topics may include properties and distribution of water on the surface, in the vadose zone and in aquifers; behavior, modeling, and geology of groundwater aquifers; human use and abuse of water resources, including groundwater contamination and extraction; and water law economics, and aquatic ecology. A lab with field trips focus on measurement and modeling of groundwater.
Prerequisite: MATH 1420 or permission of instructor, and GEOL 1403 or GEOL 1405 or GEOG 2341.

German (GERM)

GERM 1411. Elementary German. 4 Hours.
Students who have had no previous instruction in German develop vocabulary acquisition, international cultural components, pronunciation, drills, sentence formation, and everyday conversation leading to proficiency. A weekly one-hour language laboratory period is required. Competent speakers of German or those with considerable knowledge of the language should take the CLEP prior to registering. Grade of C or better required in GERM 1411 in order to continue to GERM 1412. Instruction is in German.

GERM 1412. Elementary German. 4 Hours.
A continuation of GERM 1411. Students add more speaking and writing toward advancing proficiency. A weekly one-hour language laboratory period is required. Competent speakers of German or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in German.
Prerequisite: Grade of C or better in GERM 1411 or equivalent.

GERM 2311. Intermediate German I. 3 Hours. [TCCN: GERM 2311]
A continuation of GERM 1412. Students add emphasis on written and oral skills. Competent speakers of German or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in German.
Prerequisite: Grade of C or better in GERM 1411 and GERM 1412 or equivalent.

GERM 2312. Intermediate German II. 3 Hours. [TCCN: GERM 2312]
Students focus on fluent usage of oral and written German. Students study selected written work with the purpose of mastering midlevel proficiency skills. Competent speakers of German or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in German.
Prerequisite: Grade of C or better in GERM 1411, GERM 1412, and GERM 2311 or equivalent.

GERM 2364. Multicultures of American-German. 3 Hours.
Students increase awareness of Central European culture in America with particular emphasis on the nineteenth and the twentieth centuries. This course may be conducted in English or German. Credit for this course may be applied to the major or minor only with permission of department chair.
Prerequisite: Grade of C or better in GERM 1411, GERM 1412, GERM 2311, and GERM 2312 or equivalent.

GERM 3368. German Media. 3 Hours.
Students study German Media by focusing on conversational, listening, reading, and vocabulary skills. Students watch German television programs and read articles from major German magazines and newspapers. Includes a review of German grammar.
Prerequisite: Grade of C or better in GERM 1411, GERM 1412, GERM 2311, and GERM 2312 or equivalent.

GERM 3380. Modern German Culture. 3 Hours.
Students overview the cultures of German speaking countries (Germany, Austria, and Switzerland) from 1780 to the present.
Prerequisite: Grade of C or better in GERM 1411, GERM 1412, GERM 2311, and GERM 2312 or equivalent.

GERM 4075. Individual Readings in German. 1-3 Hours.
Individual students who may need study of a particular era, genre, or author may enroll. Enrollment in this course is restricted and approval of such must be obtained from the department chair. The course may be repeated for credit as content varies. Variable Credit (1 to 3). Course Equivalents: GERM 4375
Prerequisite: Consent of instructor and department chair.

GERM 4360. Modern German Literature. 3 Hours.
Students overview the literatures of German-speaking countries (Germany, Austria, and Switzerland) from 1770 to the present.
Prerequisite: Grade of C or better in GERM 1411, GERM 1412, GERM 2311, and GERM 2312 or equivalent.

GERM 4370. Seminar in Selected German Topics. 3 Hours.
Students conduct an in-depth study of a selected topic. The topic to be explored will change from year to year. This course may be repeated for credit as the content varies. Enrollment for this course must be granted by the Department Chair.
Prerequisite: Grade of C or better in GERM 1411, GERM 1412, GERM 2311 and GERM 2312 or equivalent.

Guitar (GUIT)

GUIT 1101. Secondary Performances-Guitar. 1 Hour.
Students study techniques and musicality related to guitar in weekly individualized private instruction. Students admitted as a Guitar primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

GUIT 1201. Individual Performances-Guitar. 2 Hours.
The course consists of individualized private instruction on the guitar. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

GUIT 3201. Individual Performances-Guitar. 2 Hours.
The course consists of advanced individualized private instruction on the guitar. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

GUIT 3202. Applied Guitar with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the guitar. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Harp (HARP)

HARP 1101. Secondary Performances-Harp. 1 Hour.
Students study techniques and musicality related to harp in weekly individualized private instruction. Students admitted as a Harp primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

HARP 1201. Harp. 2 Hours.
The course focuses on harp playing technique, historical performance practice, and fundamentals of harp performance.
Prerequisite: Permission of the instructor.

HARP 3201. Harp. 2 Hours.
Students are provided advanced training and instruction including performance technique, interpretation of music, performance practice in various major musical periods, alternate tunings, and the history of harps and harp playing.
Prerequisite: Passing the sophomore proficiency in harp.

HARP 3202. Applied Harp with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the harp. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Health (HLTH)

HLTH 1360. The Fundamentals of Health Promotion and Health Careers. 3 Hours.
Students explore the determinants of health; theories of health behavior; the nature and history of health education; and the role of the health educator as a professional in the school, work, clinical, and community settings to promote health and prevent disease.

HLTH 1366. Lifestyle and Wellness. 3 Hours. [TCCN: PHED 1304]
Students explore a variety of health issues, which influence the well-being of an individual throughout the life cycle. The student is given an opportunity to develop a personal philosophy of wellness and self-responsibility for health through self-assessment, investigation of factors affecting one's health, and the examination of behavior modification strategies.

HLTH 2330. First Aid and CPR - American Red Cross. 3 Hours. [TCCN: PHED 1306]
A course for those who wish to acquire knowledge of Red Cross emergency and preventive measures. Successful completion leads to CPR, first aid, and responding to emergency certification. Students may also become instructors through additional American Red Cross training. (Also listed as KINE 2330). Course Equivalents: KINE 2330 .

HLTH 2372. Health & Medical Terminology. 3 Hours.
This course provides medically oriented students with the cognitive skills they need to understand the foundations of medical technology for health professionals. The content of this course focuses on the prefixes, suffixes, and roots of medical terms that are associated with multiple disease processes, medical protocols, and the human anatomical system.

HLTH 2381. Consumer Health Education. 3 Hours.
Students study the factors which influence the consumer marketplace for health related products and services. Topics may include fraud and quackery, advertising, health care professional services, alternative medicine, consumer protection agencies, and consumer protection through self-responsibility.

HLTH 2383. Multicultural Health Issues. 3 Hours.
Students address health issues and problems that various ethnic groups face in the United States. Cultural differences in health behaviors, health care access, and promotion and prevention programs are emphasized.

HLTH 2391. Human Diseases. 3 Hours.
Introduction to the relationship between the human body and disease, both communicable and non-communicable. Includes historical aspects of various diseases, etiology, prevention and control, prevalence, symptoms, and treatment. Course Equivalents: HLTH 3391 .

HLTH 3219. Group Exercise Instruction. 2 Hours.
Students are presented a comprehensive and research-based discussion and application of all formats of group exercise instruction. These formats include lifestyle-based, dance-based, equipment-based, and mind-body classes. The students are presented foundational knowledge for group exercise instructors.
Prerequisite: KINE 2119 or concurrent enrollment.

HLTH 3345. Health Statistics. 3 Hours.
Students are presented an overview of statistical measures used in the health sciences. The problems-based course provides students with hands-on applications of statistical software that is oriented to authentic health issues and cases. An emphasis is placed on the application of statistical tools to answer and solve real-world public health related questions and problems.
Prerequisite: MATH/STAT 1370.

HLTH 3350. Principles of Public Health. 3 Hours.
Students are prepared with the knowledge, skills, core values, and professional dispositions that they need to work in one of the diverse areas of public health.
Prerequisite: HLTH 1360, HLTH 2391, and 55 credit hours completed.

HLTH 3355. United States Health Care Systems. 3 Hours.
Students are provided with a comprehensive survey of the components, organization, and management of the US health care system. Topics of the course may include the historical perspectives, structure, operations, economic indicators, and current/future directions of the U.S. health care delivery system.
Prerequisite: HLTH 1360, HLTH 2391, and 55 credit hours completed.

HLTH 3360. Epidemiology. 3 Hours.
Students examine the basic epidemiological tenets, research techniques and technologies, findings of association and causation, distribution of diseases, and those factors that explain such distributions. Emphasis is placed on the interactions of biological, social, and economic factors in relation to accessibility of health services and geographical variations in health risks. Must have 60+ hours.
Prerequisite: HLTH 1360, HLTH 2391, and MATH/STAT 3379 or 1342 or 1370.

HLTH 3361. Health Planning & Evaluation. 3 Hours.
Students engage in a survey of the use of program planning models and health behavior theories in the wellness setting as well as assessment and evaluation processes for wellness management programs.
Prerequisite: HLTH 1360, HLTH 2391, and 55 credit hours completed.

HLTH 3380. Drug Use and Abuse. 3 Hours.
Students explore the use and misuse of drugs and their effects on the health of individuals. Course Equivalents: HLTH 2380 .

HLTH 3382. Child & Adolescent Health. 3 Hours.
Students focus on the causes of and approaches to physical, social, mental, and emotional health problems among young people. Emphasis is placed on creating an environment in which children and adolescents can learn to make prudent decisions regarding health related behaviors. .

HLTH 3385. Safety Education. 3 Hours.
Students are presented the foundations of accident prevention and injury control. Applications are made to motor vehicle, home, recreational, and occupational safety.
Prerequisite: HLTH 1360, HLTH 2391.

HLTH 3390. Family Life & Sex Education. 3 Hours.
Students focus on the formation of intimate relationships: family, marriage, and friends. Individuals are directed into the study of their personal backgrounds, lives, and dreams in preparation for marriage, including problems of relationships: rape, battering partners, sexually transmitted diseases, and divorce.

HLTH 3392. Health Communication and Literacy. 3 Hours.
Student engage in an exploration of different modalities of communicating health issues and information to audiences in different settings. Emphasis is given to listening, writing and speaking skills. Students learn how to make effective presentations using computer applications to design print and visual aid materials.
Prerequisite: HLTH 1360, HLTH 2391.

HLTH 4117. Practicum. 1 Hour.
Students participate in a guided faculty experience in the area of research, grants, program planning, or other experiential learning activity. This course is designed to enhance the professional skills and dispositions of students entering the field of Public Health.
Prerequisite: HLTH 1360, HLTH 2391 Course Equivalents: KINE 4117 .

HLTH 4317. International Perspective of Environmental Health. 3 Hours.
Students examine international, environmental, and public health concerns through the interaction of the environmental triad: Population, poverty, and pollution. Students examine national policy responses to mitigate and adapt to environmental concerns, and how these policies may differentially impact human health.
Prerequisite: HLTH 3350 or permission of the instructor.

HLTH 4360. Research Methods/Statistics. 3 Hours.
Students are provided an introduction to research methodology, evaluation, and statistical analysis with direct application to health education and health promotion. Students learn how to apply these techniques to writing a grant proposal.
Prerequisite: HLTH 1360, HLTH 2391, and Junior standing.

HLTH 4363. Interventions for Wellness. 3 Hours.
Students address the skills and resources needed to implement and facilitate specific interventions within a comprehensive wellness program. The development and delivery of programs including tobacco management, weight control, nutrition, physical activity, workplace safety, disease prevention, and other applicable interventions are addressed.
Prerequisite: HLTH 1360, HLTH 2391, and Junior Standing.

HLTH 4365. Health Care Policy. 3 Hours.
Students are prepared in the essential health policy and law as well as the policies and legal issues impacting health care and public health systems. The methods used to formulate health policies and laws are included, as well.
Prerequisite: HLTH 1360, HLTH 2391, and Junior Standing.

HLTH 4366. Health Informatics. 3 Hours.
Students are prepared with innovative and best practice technological applications to support human health by individuals, professionals, care delivery organizations, and communities. Internet-based health resources, smart phone/mHealth applications, telehealth, health-related social networks, and policies to connect people and technologies securely across health care ecosystems are applied.
Prerequisite: HLTH 3350.

HLTH 4367. Economics for Health Managers. 3 Hours.
Students are provided an overview of economic principles and analysis tools as applied to the health care industry. Traditional market-based economic theories are examined along with the significant role that government entities play in health care. Course topics may include health care supply, demand, elasticity, risk, cost, pricing, and insurance costs.
Prerequisite: HLTH 1360, HLTH 2391, HLTH 3355, ECON 2302 or ECON 2301, Senior Standing.

HLTH 4370. AIDS: Current Health Problems and Prevention. 3 Hours.
Students examine the intensity and magnitude of health problems due to HIV and AIDS. Students explore the nature of HIV, its transmission and progression, and the management of AIDS. The course focuses on prevention of the spread of AIDS among school-age children and young adults and addresses the economical, sociological, and ethical issues of AIDS.
Prerequisite: Junior standing.

HLTH 4371. Patient Navigation. 3 Hours.
Bilingual Health Care Studies students are prepared with advanced health care concepts, resources, and skills related to patient navigation by applying Culturally and Linguistically Appropriate Services (CLAS) in various health care settings with an emphasis on the integration of patient navigation into, and through, the US health care system. Students evaluate topics related to patient navigation background and history, discuss the National Standards for CLAS in Health Care, and examine the roles and responsibilities of an effective culturally and linguistically competent patient navigator.
Prerequisite: HLTH 1360, HLTH 2391, HLTH 3391, and Senior standing.

HLTH 4375. Health Laws and Ethics. 3 Hours.
Students are provided with the fundamentals of health law and ethics. The course explores the multi-faceted aspects of employer-employee relations in the health care setting and the legal ramifications associated with patient relations, patient care, and medical records. In addition, the students explore and analyze the issue of ethics in contemporary health care situations.
Prerequisite: HLTH 1360, HLTH 2391, HLTH 3355, Senior standing.

HLTH 4380. Global Health. 3 Hours.
Students are provided with an in-depth approach to the social, economic, environmental, cultural, and intellectual issues that determine the health status of global populations.
Prerequisite: Junior Standing.

HLTH 4384. Internship Preparation. 3 Hours.
Students are provided with practical experience in wellness programming and leadership skills that are necessary to successfully complete an internship in the wellness management field. Students are provided with job acquisition skills in resume development, interviewing techniques, and the job search process.
Prerequisite: Senior Standing.

HLTH 4387. Community Health. 3 Hours.
Students engage in an overview of the political, social, economic, and cultural variables affecting the health of a community. Topics may include foundations of community health, health resources, health through the life span, governmental and voluntary programs, and international health initiatives.
Prerequisite: 55 credit hours completed.

HLTH 4390. Environmental Health. 3 Hours.
Students investigate community environmental health problems. Topics may include population problems, housing, sanitation, air and water pollution, and other environmental health issues. An emphasis is placed on school-community action programs to conserve the environment.
Prerequisite: Junior standing.

HLTH 4391. Capstone and Grant Writing. 3 Hours.
Students explore the critical elements of grant development which include the acquisition, implementation, budgeting, and evaluation processes associated with successful grant writing. Students integrate program planning methods, needs assessment protocols, surveillance data applications, community organization techniques, and health behavior change strategies into a viable grant proposal related to their field of study.
Prerequisite: Senior standing and HLTH 3350, 3361 and 4387.

HLTH 4392. Problems in Health. 3 Hours.
Students engage in a directed individual study of an approved field problem in health and/or allied fields.
Prerequisite: HLTH 1360, HLTH 2391, and Departmental approval.

HLTH 4393. Professional Preparation for Health Careers. 3 Hours.
Students are prepared for their professional internship. Course content focuses on the contemporary areas of assessing, planning, implementing, and evaluating health programs; communicating health needs; serving as a resource person; and coordinating health needs in a community.
Prerequisite: HLTH 1360, HLTH 2391, and 12 hours of Health.

HLTH 4394. Internship Program. 3 Hours.
Students are provided with opportunities to demonstrate assessment, organization, group process and program planning skills in a health community setting.
Prerequisite: HLTH 1360, HLTH 2391, and HLTH 4393 with a C or better.

HLTH 4395. Special Topics in Health. 3 Hours.
Students prepare an investigative summary that examines the social, physical, mental, economic, and political variables which impact an area of Public Health within their specific degree area. The investigative summary will be presented in a virtual or face-to-face format to health program faculty.
Prerequisite: HLTH 1360, HLTH 2391.

History (HIST)

HIST 3075. Independent Study. 1-3 Hours.
Students may take this course for Academic Distinction Credit. See Academic Distinction Program in this catalog. Course Equivalents: HIST 4075, HIST 4375 .

HIST 3325. Era of the American Revolution: 1763-1789. 3 Hours.
Students examine the issues of conflict between English continental colonies and British imperial policy which led to the movement for independence. Topics may include internal colonial conflicts and attempts to solve the federal problem culminating in the formation of the Constitution. Course Equivalents: HSTY 3363, HIST 4368 .

HIST 3328. Modern France: From the Revolution to the Present. 3 Hours.
Students examine the history of France from 1789 to the present. Topics include the military, political, and diplomatic history of France in this era. Course Equivalents: HIST 4380 .

HIST 3373. Topics in the History of Science and Medicine. 3 Hours.
Students examine the history of science and medicine. Topics include the development of scientific knowledge across the centuries.

HIST 3390. Conceptualizing History Education. 3 Hours.
Students examine conceptualization techniques in Texas, U.S., and World History. The course is designed to enable History students to organize a vast amount of material into a logical framework that will help them to better understand the interactions of individuals, communities, nations, and cultures across time and place. Special emphasis will be placed on subject areas included in the Texas Examination for Educator Standards.

History (HSTY)

HSTY 1301. U.S. History to 1876. 3 Hours. [TCCN: HIST 1301]
Students examine the colonial origins of the United States and growth of the republic to 1876. Course Equivalents: HIST 1301 .

HSTY 1302. U.S. History Since 1876. 3 Hours. [TCCN: HIST 1302]
Students examine the history of the United States from 1876 to the present. Course Equivalents: HIST 1302 .

HSTY 2311. World History to 1500. 3 Hours. [TCCN: HIST 2311]
Students examine the history of the world from the dawn of civilization in Mesopotamia, China, India, Egypt, and Mesoamerica through the Middle Ages in Europe and Asia. Topics may include the Middle Ages, Renaissance, Reformation, and the rise of nation states. Course Equivalents: HIST 2311 .

HSTY 2312. World History Since 1500. 3 Hours. [TCCN: HIST 2312]
Students examine the history of the world from 1500 to the present. Topics may include European expansion overseas; imperialism and colonization; the Industrial Revolution; the Enlightenment; the French Revolution; nineteenth century nationalism and democracy; the colonial rebellions in Africa, Latin America, and Asia; World War I; World War II; the Cold War; and the collapse of the Soviet Union. Course Equivalents: HIST 2312 .

HSTY 3300. Historian's Craft. 3 Hours.
Students learn the fundamental architecture and tools of the discipline, including the analysis, interpretation, and contextualization of evidence. Students conduct research in primary and secondary sources, and apply historical writing skills. Course Equivalents: HIST 3300 .

HSTY 3301. Public History. 3 Hours.
Students examine topics in the field of Public History, including architectural preservation and restoration, museum studies, and oral history. Topics vary from semester to semester, but each semester students analyze oral sources, primary textual materials, and historical artifacts of various types, including architectural dwellings, tools, and local and family records. Course Equivalents: HIST 3388 .

HSTY 3302. Applied Public History. 3 Hours.
Students apply the theories and best practices of public history to develop an original exhibit or event for the public. The course promotes the collaborative study and practice of history and may be offered with Academic Community Engagement distinction. Course Equivalents: HIST 3301 **Prerequisite:** HSTY 3388.

HSTY 3310. African Civilizations to 1800. 3 Hours.
Students examine the history of Africa between 16,000 BC and 1800 AD. Topics may include the historical roots of Africa's cultural diversity; evolutions in agriculture and technology; trade and commerce; the Indian Ocean Slave Trade; and the development of social, economic, and political institutions. Course Equivalents: HSTY 3310 .

HSTY 3311. African Civilizations since 1800. 3 Hours.
Students examine the problems, potentials, and upheavals of Modern Africa. Topics may include the effect of the slave trade on African society, racial conflicts, apartheid, the emergence of African nationalism, the end of white colonial rule, and the difficulties of achieving economic and political stability in contemporary Africa. Course Equivalents: HIST 3389 .

HSTY 3312. Early Christianities. 3 Hours.
Students engage in an interdisciplinary and cross-cultural examination of central themes in the history of early Christianities beginning with the transformation of the Jesus Movement into a separate Christian religion and concluding with the divisions made permanent by the Fourth Crusade. Course Equivalency: HIST 3350 .

HSTY 3315. Middle East to 1600. 3 Hours.
Students examine the political, social, economic, and cultural development of the Middle East from the eve of the rise of Islam through the seventeenth century. Topics may include the Middle East before Islam; the Rise of Islam; the faith and practices of Islam; the Rightly-Guided Caliphs; Shi'ah and Sunni Islam; the Umayyad and Abbasid Caliphates; the Crusades and Islam; Islam and the Steppe Empires; the rise and apogee of the Ottoman Empire; and Islam's initial response to the encroachment of the west. Course Equivalents: HIST 3362 .

HSTY 3316. Modern Middle East. 3 Hours.
Students examine the political, social, economic, and cultural development of the Middle East since the seventeenth century. Topics may include the decline of traditional empires; the encroachment of Europe; the Eastern Question; the development of nationalism among the Turks, Arabs, and Iranians; Islam and modern ideologies; and the Middle East in the twentieth century. Course Equivalents: HIST 3336 .

HSTY 3317. Silk Roads to Mongol Empire. 3 Hours.
Students engage in an interdisciplinary investigation of the contexts, impulses, and implications of long-distance interplay among cultures in both pre-modern and modern times. Students apply scholarly models of cross-cultural interactions using three specific case studies: the ancient Silk Roads, the trans-Eurasian Mongol Empire, and the trans- Atlantic Columbian Exchange. Course Equivalents: HIST 3358 .

HSTY 3318. Japan: Age of the Samurai. 3 Hours.
Students examine medieval and early modern Japanese history. Beginning with the emergence of warrior bands, students explore how military men established regimes, managed vendettas, and mobilized resources. Topics may include warrior ideology, samurai rule, and the dissolution of the samurai caste. Course Equivalents: HIST 3351 .

HSTY 3319. War & Revolution in China. 3 Hours.
Students examine the profound changes that China has undergone from the early twentieth century until the present day, focusing on the themes of war and revolution. Topics may include the collapse of the old dynastic system, the Japanese invasion of China, the Chinese Civil War, the Cultural Revolution, and protest movements in the late twentieth century. Course Equivalents: HIST 3317 .

HSTY 3321. Modern Asian History. 3 Hours.
Students examine Asian history since the fourteenth century. Topics may include the modernization of Asia and the influence of colonization, nationalism, and industrialization on present-day Asia. Course Equivalents: HIST 3332 .

HSTY 3322. Pacific War. 3 Hours.
Students examine Japan's participation in the Pacific War, and the effect of WWII on Japan and East Asia. Topics may include the rise of militarism in Japan, the Sino-Japanese War, colonial expansion, total war, the U.S. occupation, post-war economic growth, and war memories. Course Equivalents: HIST 3348 .

HSTY 3323. Modern China. 3 Hours.
Students examine major political, social, and cultural developments of Communist China from 1949 to the present. Topics may include the history of Chinese communism, the Great Famine, the Cultural Revolution, China after Mao Zedong, China's involvement in the Cold War, the era of post-socialist market reforms, and its role in the age of globalization. Students also examine how revolution and reforms were experienced by those who lived through them. Course Equivalents: HIST 3349 .

HSTY 3330. Ancient History. 3 Hours.
Students examine the history of the civilizations of the Ancient Near East, Greece, and Rome with special emphasis upon their contribution to the cultural heritage of the western world. Course Equivalents: HIST 3370 .

HSTY 3331. Roman Empire to Byzantium. 3 Hours.
Students engage in a cross-disciplinary investigation of the Roman Empire from Augustus to Heraclius, including the transformation of the Roman Empire into Christian Byzantium and its complex relationship with the rival Parthian and Sasanian Empires based in modern-day Iran. Topics include the multi- and cross-cultural dimensions of Romano-Byzantine society and the generation of a tri-continental Byzantine "commonwealth." Course Equivalents: HIST 3352 .

HSTY 3332. Medieval Europe. 3 Hours.
Students examine the political, economic, social, intellectual, and religious institutions and developments in Europe from the collapse of the Roman Empire in the fifth century to the Renaissance. Course Equivalents: HIST 3371 .

HSTY 3333. Renaissance Europe. 3 Hours.
Students examine the intellectual, political, social, and cultural history of Europe from the fourteenth to sixteenth centuries, a period that saw, starting in Italy, a rebirth of the values and culture of Classical Greco-Roman civilization. Topics may include intellectual and artistic movements and the profound implications these had for European values, worldview, politics, and art. Course Equivalents: HIST 3334 .

HSTY 3334. Euro Christianities 1350-1750. 3 Hours.
Students examine the religious, social, and cultural history of Europe from the sixteenth into the seventeenth centuries, a period that saw the fracturing of a unified Christendom. Topics may include religious and theological changes and the profound implications these had for European politics, social norms, cultural values, and economic endeavors. Course Equivalents: HIST 3337 .

HSTY 3335. Europe & the World 1618-1789. 3 Hours.
Students examine major developments in Europe and in its relations with the world between 1618 and 1789. Topics may include the rise of absolutism and constitutionalism, development of Baroque and Rococo art, global impact of mercantilist and capitalist systems, changes produced by scientific discovery and Enlightenment thought, and effects of tensions within a society of orders.

HSTY 3336. Nineteenth Century Europe. 3 Hours.
Students examine the history of principal European powers during the long nineteenth century. Topics may include the legacies of the French Revolution and Napoleonic era, the impact of the Congress of Vienna, early political ideologies, Romanticism, the First Industrial Revolution, the Revolutions of 1830 and 1848, urbanization, nationalism, mass politics, Realism, New Imperialism, and the origins of World War I.

HSTY 3337. Austria-Hungary and its Legacy. 3 Hours.
Students explore the history of the Habsburg Empire and its successor states from the dissolution of the Holy Roman Empire to the region's integration into the European Union. Topics include nationalism; democracy and multiculturalism; the struggle for women's rights; industrialization and workers' movements; Jewish history; war and political collapse; intellectual history; and the Cold War. Course Equivalents: HIST 3356 .

HSTY 3338. Britain to 1714. 3 Hours.
Students examine the development of the British peoples from prehistoric times to the end of the Stuart dynasty. Topics may include the peoples of Wales, Scotland and Ireland. Course Equivalents: HIST 3363 .

HSTY 3339. Modern Britain. 3 Hours.
Students examine the effects of industrial change, the enmity of France in foreign affairs, Great Britain's renewed expansion overseas following the American Revolution, movements favoring social and economic reform, and political trends to the present. Course Equivalents: HIST 3364 .

HSTY 3340. British Empire. 3 Hours.
Students examine the British Empire and Commonwealth to the present time. Topics may include the rise of colonial and dominion nationalism, the imperial conferences, and the unfolding of the British Commonwealth of Nations. Course Equivalents: HIST 3381 .

HSTY 3341. Early Modern France. 3 Hours.
Students examine major political, cultural, economic, social, intellectual, and artistic developments in France between 1453 and 1789. Topics may include the crisis of the Later Middle Ages, Renaissance France, the Protestant Reformation and the French Wars of Religion, the French Counter-Reformation, Absolutism, Overseas Expansion, the Enlightenment, and France on the eve of the French Revolution. Course Equivalents: HIST 3347 .

HSTY 3342. French Revolution & Napoleon. 3 Hours.
Students examine the history of France during the French Revolution Napoleonic Era, 1789-1815. Topics may include the military and political history of the era, with a detailed examination of the battles and campaigns of the Napoleonic Wars. Course Equivalents: HIST 3339 .

HSTY 3343. Germany at War and Peace. 3 Hours.
Students examine the history of militarism and warfare in Germany, from the rise of the Prussian state in the eighteenth century through the present. Topics may include the relationship between warfare and the development of German politics, society, and culture. Major historical figures include Frederick the Great, Clausewitz, Otto von Bismarck, and Adolf Hitler. Students examine how contemporary, pacifist German politics emerged out of two difficult centuries of warfare. Course Equivalents: HIST 3359
Prerequisite: Junior standing.

HSTY 3344. Russian and Soviet Empires. 3 Hours.
Students track the complex development of the Russian Empire, its Soviet successor, and the Russian Federation. Topics may include imperialism, ideology, culture, economy, society, war, nationalism, gender, and decolonization.

HSTY 3345. History of Medicine. 3 Hours.
Students trace the history of western medicine from antiquity to the present. Topics may include humoral medicine, bacteriology, gender and race in medicine, public health, pandemics, medical ethics, and vaccines.

HSTY 3346. Medical Violence. 3 Hours.
Students probe the violent aspects of the history of medicine in this class. Medicine has historically demonstrated a great capacity to ease human suffering, but it has also perpetrated prodigious harms. Students analyze the historical contexts that gave rise to violent medical practices and how definitions of violence in medicine have changed over time. Topic may include biological weapons, human experimentation, eugenics, and colonial health policy.

HSTY 3347. World War I (1914-1918). 3 Hours.
Students examine World War I from its European origins to its emergence as a global conflict. Topics may include the formation of political and military alliances; emerging role of the state; role of industrial economies in waging war; home front cultures and societies; major land campaigns of the Eastern and Western Fronts; war at sea; the Bolshevik Revolution in Russia, which emerged out of the war; and the complexity of the peacemaking process. Course Equivalents: HIST 3357
Prerequisite: Junior standing.

HSTY 3348. World War II. 3 Hours.
Students examine the inter-war and World War II era from 1919 to 1945, emphasizing the events leading to the war in Europe, the rise of Nazi Germany, the major battles and campaigns in the European theatre, and the aftermath of the war. Topics may include the rise of the Japanese Empire, the events leading to the outbreak of war in Asia and the Pacific, and the major battles and campaigns of the Pacific war through the defeat of Japan. Course Equivalents: HIST 3387 .

HSTY 3350. Aztec, Maya, & Zapotec. 3 Hours.
Students examine the history of Mesoamerica, a broad geographic area comprised of peoples, including the Maya, Zapotec, and Aztec. Students analyze how the peoples of this region accomplished their achievements in architecture, calendrics, astronomy, art, the sciences, and literature. Course Equivalents: HIST 3310 .

HSTY 3351. Modern Mexico. 3 Hours.
Students examine the national history of Mexico from the era of independence (c.1810) to the present. Students explore the challenges that the Mexican people faced after gaining independence, their resilience during years of political and economic change, and the rich culture that has emerged in the wake of those struggles. Attention is also given to the US-Mexican border as a site of complex cultural interaction. Equivalent Courses: HSTY 3351 .

HSTY 3352. Colonial Latin America. 3 Hours.
Students examine the conquest and development of the colonial institutions of Spain and Portugal in the Americas, including the Spanish borderlands as the center of Spanish colonial activity and power in the Americas. Course Equivalents: HIST 3391 .

HSTY 3353. Modern Latin America. 3 Hours.
Students examine the development of the South American Republics from their independence to the present. Topics may include social, economic, and political development. Course Equivalents: HIST 3329, HIST 4395 .

HSTY 3354. Slavery & Freedom in Americas. 3 Hours.
Students examine slavery and other forms of unfree labor throughout the Americas and the Atlantic world from the fifteenth to the nineteenth centuries. Topics may include the transatlantic slave trade and Middle Passage; Native American enslavement; enslaved resistance and revolt; economics of slavery; abolitionist movements; the Haitian Revolution; and comparative processes emancipation.

HSTY 3360. Native America to 1840. 3 Hours.
Students examine Native American history from the peopling of the continent to the mid-nineteenth century. Students analyze Indigenous societies before 1500, investigate indigenous people's reactions to European colonization, and Native nations' perseverance as the U.S. grew.

HSTY 3361. Native America sn 1840. 3 Hours.
Students examine Native American history from the mid-nineteenth century to the present. Students analyze Native responses to nineteenth century U.S. military campaigns, allotment, and assimilation policies. Students then explore the struggles of twentieth century Native Americans to preserve Native culture, land, and sovereignty.

HSTY 3362. Colonization of America. 3 Hours.
Students examine early American history from the beginnings of European colonization through the American Revolution and the War for American Independence. Course Equivalents: HIST 3376 .

HSTY 3363. Age of Independence. 3 Hours.
Students examine the issues of conflict between English continental colonies and British imperial policy which led to the movement for independence. Topics may include internal colonial conflicts and attempts to solve the federal problem culminating in the formation of the Constitution. Course Equivalents: HIST 3325, HIST 4368 .

HSTY 3364. United States Early Republic. 3 Hours.
Students examine United States history from 1783 to 1877. Topics may include the origins of the U.S. Constitution, the early republic and rise of the two party-system, the nature of Jeffersonian and Jacksonian democracy, the sectional crisis and the Civil War, and the era of Reconstruction. Course Equivalents: HIST 3377 .

HSTY 3365. United States Civil War Era. 3 Hours.
Students examine the sectional conflicts of the 1850s, the Civil War, and Reconstruction. Topics may include the military, political, social, and diplomatic history of the era. Course Equivalents: HIST 4369, HIST 3380 .

HSTY 3367. Incorporating America. 3 Hours.
Students examine United States history from 1877 to 1933. Topics may include the industrial revolution, Gilded Age, American expansion and imperialism, populist and progressive movements, World War I, Jazz Age, and the Great Depression.

HSTY 3368. The American Century. 3 Hours.
Students examine United States history from the New Deal to the rise of conservatism. Topics may include the New Deal, World War II, Cold War, civil rights movements, environmentalism, Vietnam War, immigration, and the role of federal government in American life.

HSTY 3369. Boomers to Zoomers. 3 Hours.
Students explore the history of the United States from the age of Ronald Reagan to the present, with an emphasis on the people and ideas that shaped this period and the experiences of various generations of young people who lived during it. Topics may include the decline of industry and the rise of finance, immigration and demographic diversity, technology, media and art, political realignment and division, the Cold War and the Global War on Terror, wars on crime and drugs, and social and political activism on issues ranging from LGBTQ+ rights to gun rights.

HSTY 3370. African American Hist to 1865. 3 Hours.
Students examine the formation and expansion of African American identity, slavery and freedom before Emancipation in British North America and the United States. Topics may include West and West Central Africa civilizations on the eve of the transatlantic slave trade, the Middle Passage, the Second Middle Passage, Free Black society and culture, abolitionism, resistance, community agency in slavery, Emancipation and Reconstruction, and the systemic impact of slavery on the enslaved and their descendants.

HSTY 3371. African America Hist sn 1865. 3 Hours.
Students examine the African American experience in the United States form 1865 to the present. Topics may include the various forces shaping race relations in the United States since 1865.

HSTY 3373. Black Civil Rights Movement. 3 Hours.
Students examine the black civil rights struggle in the United States from the late 19th century to the present. Topics include the black response to Jim Crow laws, the emergence of national civil rights organizations as well as local activism and historical events that have served as catalysts for change in civil rights legislation. Course Equivalents: HIST 3322, HIST 4333 .

HSTY 3374. Witches, Quakers, Shakers. 3 Hours.
Students examine the history of US religious ideas, practices, and traditions between European first contact and the Civil War. Topics may include indigenous religions, colonialism, Puritanism, dissent, the constitutional laws on religious liberty, new religious movements, Catholicism, and the Civil War. Special attention will be given to diverse and competing religious expressions. Course Equivalents: HIST 3374 .

HSTY 3375. Social Gospel to Mega Church. 3 Hours.
Students examine the history of US religious ideas, practices, and traditions between the end of the Civil War and the present. Topics may include the growth of secularism, immigration, modernism and fundamentalism, the religious right, and religion during the world wars and civil rights movement. Special attention will be given to diverse and competing religious expressions. Course Equivalents: HIST 3375 .

HSTY 3376. Mexican American Hist to 1848. 3 Hours.
Students examine the history of Mexican Americans throughout the United States prior to the US-Mexico War. Topics may include: empire, borderlands, the rise and fall of native and African slavery, early global economies, mission secularization, and Texas independence.

HSTY 3377. Mexican American History Since 1848. 3 Hours.
Students examine the history of Mexican-Americans in what is now the United States Southwest. The course begins with the 1848 Treaty of Guadalupe Hidalgo that ended the war between the United States and Mexico and created a Mexican-American minority within the U.S. Topics may include such themes as the indigenous background of this population, the Chicana/o perception of the Southwest as a homeland, and the effect of that perception on the history of this ethnic group. Course Equivalents: HIST 3340 .

HSTY 3379. U.S. Women to 1900. 3 Hours.
Students examine U.S. women's history up to 1900. Topics may include work, marriage, family, sexuality, reproduction, education, and the social forces that have aided or blocked change in women's roles in American society. Particular attention is paid to differences in race, class, and ethnicity.

HSTY 3380. U.S. Women since 1900. 3 Hours.
Students examine U.S. women's history since 1900. Topics may include work, marriage, family, sexuality, reproduction, education, and the social forces that have aided or blocked change in women's roles in American society. Particular attention is paid to differences in race, class, and ethnicity.

HSTY 3381. U.S. South to 1865. 3 Hours.
Students examine the colonial roots of the U.S. South and its emergence during the early U.S. Republic. Topics may include the various peoples and subregions, politics, economic development, culture, society, and religion to the U.S. South in the period prior to 1865.

HSTY 3382. U.S. South sn 1865. 3 Hours.
Students examine the development of the Southern United States from the end of slavery to the present. Topics may include the various peoples and subregions, politics, economic development, culture, society, and religion unite to the U.S. South following the U.S. Civil War.

HSTY 3383. The U.S. West. 3 Hours.
Students examine the settlement and development of the Trans-Mississippi West and its influence upon national and international affairs. Course Equivalents: HSTY 3326, HIST 4370 .

HSTY 3384. Texas History. 3 Hours.
Students examine the history of Texas from precontact era to the present. Topics may include the Native societies of Texas, Spanish exploration and colonization, Mexican independence, the Texas Revolution and the Republic of Texas, the Civil War and Reconstruction in Texas, slavery, immigration, oil and industrialization, political movements and leaders, and the Black and Mexican American civil rights movements.

HSTY 3385. Borderlands History. 3 Hours.
Students examine the history of borderlands, border-making, and border-crossing. Topics may include: legal regimes, labor, migration, human rights, sovereignty, nationalism, borderland typologies, comparative borderlands, territorial conflict, and the opening and closing of borders.

HSTY 3386. Rise of Convservatism. 3 Hours.
Students explore the history of American conservatism from the New Deal onward. Topics may include intellectual roots and traditions, conservative legal and constitutional theory, the demographics, geography, and strategy of conservative politics, conservative media, conservative religion and culture, the conservative relationship to other major political and social movements such as the Black freedom and women's rights movements, and conservative political leaders from the early 20th century to the present.

HSTY 3387. American Immigration. 3 Hours.
Students examine ethnic group relations, nativism, and racism in the historical development of American civilization, with special emphasis on the patterns of assimilation and non-assimilation of ethnic groups. Course Equivalents: HIST 3382 .

HSTY 3388. United Stated Military History. 3 Hours.
Students examine the U.S. military experience, from the colonial period to the present. Topics may include the military, political and diplomatic history of the great conflicts of the United States. Course Equivalents: HIST 3386 .

HSTY 3390. Vietnam War. 3 Hours.
Students examine the United States involvement in Southeast Asia from 1945 to 1975. Topics may include the issues of nationalism and communism in Southeast Asia; the first Indochina war between the French and Vietnamese; the United States military effort in Indochina from 1965 to 1975; the postwar political, economic, and social problems in the region; the effect of the Vietnam War on American culture and foreign policy. Course Equivalents: HIST 3361 .

HSTY 3392. Historiography. 3 Hours.
Students survey various historical interpretations and develop research skills. Course Equivalents: HIST 3372 .

HSTY 3393. Environmental History. 3 Hours.
Students examine topic in environmental history including agricultural systems and foodways; the impact of weather and climate on human societies; diseases and natural medicines; the relationship between human societies and non-human animals; capitalism and the environment; and the emergence of conservationist and environmentalist movements.

HSTY 3394. History of Capitalism. 3 Hours.
Students examine economic, social, political, and cultural transformations associated with the emergence of capitalism from the early modern period to the present. Topics may include merchant communities and commercial network; the Industrial Revolution; slavery and capitalism; commodities and consumption; finance banking; labor and labor movements; poverty and inequality; and economic crises including the Great Depression.

HSTY 3395. Working Class History. 3 Hours.
Students explore the history of work and workers. Topics may include the free and unfree labor, the relationship between workers and capital, worker organizations such as guilds and labor unions, the legal and political institutions that shape labor, and the impact of technology, including artificial intelligence, on work.

HSTY 3396. Gender and Sexualities. 3 Hours.
Students examine how the understanding of gender and sexuality differs historically according to factors such as race, class, ethnicity, religion and/or sexual orientation. Course Equivalents: HIST 3327, HIST 4383 .

HSTY 3397. Urban/Suburban History. 3 Hours.
Students examine the growth and development of cities and suburbs in the U.S., paying particular attention to public policy, race, class, ethnic enclaves, and connections between American and global cities. Topics may include major metropolitan areas, such as Houston, Texas. Students conduct research into the city and its surrounding suburbs and locales. Credit 3 .

HSTY 3398. History of Popular Culture. 3 Hours.
Students examine the creation and expansion of popular culture from the mid-19th century to the present. Topics may include the development of mass culture and the ways popular cultural forms such as music, film, television, comics, novels, fashion, and sports reflected, shaped, and promoted American values at home and abroad.

HSTY 3399. Special Topics in History. 3 Hours.
Students examine various specialized topics in history not normally covered in detail by other upper-level courses. Course Equivalents: HIST 3399 .

HSTY 4399. History Senior Seminar. 3 Hours.
Students examine specific topics and conduct historical research, producing an extensive research paper using primary and secondary sources. Course Equivalents: HIST 4399
Prerequisite: Senior standing in history or departmental approval.

Honors (HONR)

HONR 3321. Honors Seminar in Fine Arts. 3 Hours.
This team-taught class is an investigation into the theories, meanings, purposes, and practical experience of the fine arts, including dance, music, the visual arts, and theater. Students will attend dance and music concerts, theater productions, and art exhibits. Spring semester only. Course Equivalents: HONR 2375 .

HONR 3322. Journeys. 3 Hours.
The Journeys seminar invites approximately ten of the most innovative and successful members of the Sam Houston State University community to give one lecture each. Each speaker has one class period to use however s/he feels is best. Chosen speakers generally detail the paths of their own lives while giving students advice on how to achieve successful and happy lives. Speakers are chosen from a variety of disciplines and backgrounds.
Prerequisite: Admission to the Honors College.

HONR 3331. Culture and Society. 3 Hours.
This course deals with contemporary social, economic, political, and international issues and provides important background information and perspectives on current debates and events. Course content varies.

HONR 3332. Honors Seminar in the Humanities. 3 Hours.
This course is a team-taught, cross-disciplinary concentration on ideas, developments, and subject matter in the humanities.

HONR 3342. The Word. 3 Hours.
This seminar changes topics (or "words") every semester, and several faculty with interests and specialties relevant to the theme from various colleges and departments lead discussions from different points of view. Sample topics include "The End," "Connections," "Sustainability," and "Drugs." All words reflect timely topics and student interests.
Prerequisite: Admission to the Honors College.

HONR 3343. Film and Society. 3 Hours.
This seminar invites students to explore the relationship between film and society from a broad range of perspectives. Several faculty from various colleges and departments choose films and lead discussions. Topics vary.
Prerequisite: Admission to the Honors College.

HONR 3365. Decision Making. 3 Hours.
This course introduces students to the fundamentals of decision making and problem solving. Students will (1) learn fundamental principles, generalizations, or theories of decision making, (2) learn how to apply course material to improve thinking, problem solving, and decisions, (3) gain skills for working as a team in presenting a problem for decisions, (4) understand how to analyze and critically evaluate ideas, arguments, and points of view concerned with decisions. Course Equivalents: HONR 2331 .

HONR 3375. Honors Dialogues Seminar. 3 Hours.
The Dialogues Seminar is an interdisciplinary course which examines selected controversial or provocative topics from various academic and intellectual perspectives. The course is team taught, with faculty from various disciplines engaged with one another and with the studets in interactive discussions of the selected topic for the course.
Prerequisite: Membership in the Honors College.

HONR 4095. Independent Study. 1-4 Hours.
This independent study may be taken for any interdisciplinary topic or project for honors students. Variable credit (1-4).
Prerequisite: Admission to the Honors College.

HONR 4375. Special Topics For Honors. 3 Hours.
This course affords honors students the opportunity to do an honors thesis, a long-term research and writing project under the direct supervision of a faculty member. The course is open to honors students in all disciplines.

HONR 4398. Honors Thesis I. 3 Hours.
In this course, the student works under close faculty supervision on a sustained research project to produce a thesis prospectus.
Prerequisite: Admission to the Honors College.

HONR 4399. Honors Thesis II. 3 Hours.
In this course, the student works under close faculty supervision on a sustained research project to produce an honors thesis.
Prerequisite: Admission to the Honors College.

Horn (HORN)

HORN 1101. Secondary Performances-Horn. 1 Hour.
Students study techniques and musicality related to horn in weekly individualized private instruction. Students admitted as a Horn primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

HORN 1201. Individual Performances-French Horn. 2 Hours.
The course consists of individualized private instruction on the horn. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

HORN 3201. Individual Performances-French Horn. 2 Hours.
The course consists of advanced individualized private instruction on the horn. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

HORN 3202. Applied Horn with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the horn. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Human Sciences (HUSC)

HUSC 3335. Event Administration. 3 Hours.
This course prepares students to attain the operational skills involved in event administration. The course focuses on social and corporate events, target markets and market segments, budgeting and forecasting, theme and proposal writing, and logistics and planning for on- and off-premise events. The course also examines the benefits of networking, promoting sales and marketing, and the importance of human resource issues in event administration. Course Equivalents: FACS 3335
Prerequisite: Junior Standing.

HUSC 4068. Research Problems. 1-4 Hours.
Seminars provide adequate research experiences for students having special needs and requirements for the completion of work for a degree. Registration is permitted only by approval of the department chair. Course may be repeated for credit. Variable Credit (1-4). Course Equivalents: FACS 4068, FACS 4368
Prerequisite: Junior standing.

HUSC 4369. Internship. 3 Hours.
Course consists of an off-campus work experience in an approved professional environment under the guidance of an internship supervisor. A minimum of two hundred (200) supervised clock hours are required for appropriate credit and enrollment in the course HUSC 4369 at the time the work is being completed. Offered spring semesters and summer only. Refer to the department internship handbook for specific major requirements. Refer to the department internship handbook for specific major requirements. Course Equivalents: FACS 4369
Prerequisite: Departmental Approval Required and 90 semester hours completed.

HUSC 4392. Independent Study in Human Science. 3 Hours.
A directed individual study of an approved problem related to one of the majors in Human Sciences. Course Equivalents: FACS 4392
Prerequisite: 9 advanced hours in declared major in Human Sciences and approval of department chair.

HUSC 4395. Special Topics in Human Science. 3 Hours.
This course will examine special topics in the field of Human Science. Course Equivalents: FACS 4395 .

Industrial Education (INED)

INED 4310. Occupational Human Relations in Career Technical Education. 3 Hours.
This course is designed to prepare the student to develop interpersonal skills and a better understanding of working relationships with people.

INED 4363. Preparation of Instructional Materials. 3 Hours.
This course is designed to prepare a student in the selection, development, organization, and effective use of instructional materials in Industrial Education classes. It involves the study of types, values, limitations and sources of instruction sheets and other teaching aids.

INED 4364. Teaching in Schools & Industry. 3 Hours.
A study of the objectives and the selection, organization and presentation of the subject matter of the various areas of Industrial Education including the organization of units of work, and demonstration teaching.
Prerequisite: Junior standing.

INED 4379. Occupational Analysis and Curriculum Development. 3 Hours.
This course is designed to enable a student to analyze trades, occupational pursuits and jobs for divisions, operations and information in order to develop a curriculum compatible to his/her teaching field.

INED 4391. Lab Management, Organization, and Control. 3 Hours.
This course is designed to prepare students to successfully manage laboratory activities, organize their labs in accordance with contemporary concepts, and to control materials/supplies within their laboratories.
Prerequisite: Junior Standing or consent of instructor.

Integrated Reading and Writing (INRW)

INRW 0011. Tutorial for Integrated Reading and Writing. 3 Hours.
This course supports students' reading and writing skills, provides them with academic support resources, reinforces their reading strategies, and has aligned support for the co-requisite ENGL 1301. This course must be taken concurrently with ENGL 1301.
Prerequisite: Score less than or equal to 945 with a Diagnostic Score of 4-6 or 0 in the ELAR portion of the Texas Success Initiative Assessment Test 2.0.

INRW 0014. Tutorial for Integrated Reading and Writing. 3 Hours.
This is a reading and writing tutorial designed to integrate students' critical reading and academic writing skills. The goals of the course are to increase practice with SAE (Standard American English), reinforce reading strategies, and support students in the co-requisite ENGL 1301. Variable Credit (0 to 3). This course must be taken concurrently with ENGL 1301. Course Equivalents: INRW 0111
Prerequisite: Score less than or equal to 945 with a Diagnostic Score of 1-3 in the ELAR portion of the Texas Success Initiative Assessment Test 2.0.

INRW 0111. Tutorial for Integrated Reading and Writing. 1 Hour.
This is a one-hour reading and writing tutorial designed to integrate students' critical reading and academic writing skills. The goals of the course are to increase practice with SAE (Standard American English), reinforce reading strategies, and support students in the co-requisite ENGL 1301. Credit: 0.
Prerequisite: Score of 360-362 in writing and score of 348-350 for reading in the Texas Success Initiative Assessment Test.

INRW 0112. Tutorial for Reading. 1 Hour.
This is a one-hour reading tutorial designed to support students' critical reading skills. The goals of the course are to reinforce reading strategies and assist students in co-requisite reading-intensive courses. Credit in this course will not be allowed to count toward graduation or computation of grade point average or classification of students by hours completed. (Course does not fulfill University degree requirements.) Corequisite: HIST 1301 or SOCI 2319 or other reading-intensive course.
Prerequisite: Scores falling into NCBO range on TSIA, as determined by state guidelines and university-established policy.

INRW 0301. Integrated Reading and Writing. 3 Hours.
The course focuses on applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to the audience, purpose, situation, and length of the assignment. The course fulfills Texas State Initiative (TSI) requirements for reading and/or writing.
Prerequisite: Students scoring 342-347 on the Reading portion of the TSI Assessment Test and/or 350-359 on the Writing portion of the TSI Assessment Test.

Integrated Science (ISCI)

ISCI 1436. Foundations of Science. 4 Hours.
The course focuses on the nature of science as a reliable method of acquiring knowledge about the natural world. Students will learn how to apply key scientific facts, concepts, laws and theories to distinguish science from non-science, bad science, and pseudoscience by analyzing a variety of claims and case studies. By employing an innovative, interdisciplinary approach to science education, this course is designed to increase science literacy and critical thinking skills for introductory-level students. This course is designed for non-science majors to help them meet their General Education science requirement. Students must enroll concurrently in the corresponding lab for this course. Course Equivalents: BIOL 1436, GEOG 1436, GEOL 1436 .

Integrated Studies (INTG)

INTG 3301. Critical Approaches to Integrated Studies. 3 Hours.
Students research their chosen discipline minors to critically investigate and enhance their understanding of the fields associated with these minors. Emphasis is on students exploring links between their minors in preparation for coursework and employment or education beyond the interdisciplinary Bachelor's degree. Students must earn a "C" or better in INTG 3301.
Prerequisite: Sophomore Standing.

INTG 4301. Integrated Studies Capstone. 3 Hours.
Students conduct career exploration activities as well as complete a capstone project linking the three minor areas of study that comprise the student's personalized Bachelor of Science in Integrated Studies degree. Students will research, review, and analyze the three academic minor areas and mold them into an innovative research report. Students must earn a grade of "C" or better in INTG 4301. Course Equivalents: LSTU 4301, UNIV 4301
Prerequisite: INTG 3301.

Interior Design (INDS)

INDS 1140. Introduction to Interior Design. 1 Hour.
Students explore the interior design profession including basic concepts and topics related to the knowledge, skills, theories, contemporary and societal issues of design practice, and career paths in interior design.

INDS 1360. Applied Design Theory. 3 Hours. [TCCN: ARTS 1311]
Specific attention is given to fundamental design theories, elements and principles of design as they function in the interior environment. Opportunities are provided for a variety of applied experiences with art and design media. Practical application in two-dimensional and three-dimensional projects is made through laboratory experiences. (2-2). Course Equivalents: FACS 1360
Prerequisite: C or better in INDS 1140.

INDS 2361. History of Furnishings I. 3 Hours. [TCCN: ARCH 1301]
A study of history of interior furniture, furnishings, and architecture from the Egyptian period to the Renaissance. Emphasis is given to the social, economic, and political conditions that influenced furniture, interiors, and architectural design. (3-0). Offered spring semesters. Course Equivalents: FACS 2361 .

INDS 2364. Materials and Sources. 3 Hours.
A theoretical analysis of design is merged with understanding of interior materials and products which meet human needs. Assessment of quality and performance criteria is emphasized, along with the design process.(3-0). Offered fall semesters. Co-requisites: INDS 2386 and INDS 2387. Course Equivalents: FACS 2364 .

INDS 2365. Digital Drawing for Interior Design. 3 Hours. [TCCN: ARCH 1315]
This course addresses computer graphics for interior designers. It will focus on the implementation of computer-aided design processes and drafting techniques to produce construction and presentation drawings. Students will explore various digital drafting techniques to develop 2-dimensional and 3-dimensional drawings. Offered spring semesters. Course Equivalents: FACS 2365
Prerequisite: Grade of C or better in INDS 2364 and INDS 2387.

INDS 2386. Studio I: Space Planning. 3 Hours.
This course provides the student with an introduction to complex process of planning residential and small commercial spaces for interior design. As part of the design process, space planning begins with a programmatic investigation of human needs, desired spatial quality, and building parameters. Students will explore space planning variations applied to a variety of interior spaces, stressing the importance of changing needs in design development and problem solving. Influencing factors such as the human element, barrier-free design and building systems are included. Offered spring semesters. Co-requisites: INDS 2364 and INDS 2387. Course Equivalents: FACS 2386
Prerequisite: INDS 1360.

INDS 2387. Architectural Graphics for Interiors. 3 Hours. [TCCN: ARCH 1307]
The course focuses on the development of two-dimensional graphic representations of architectural design. Practical application is achieved through development of drafting skills and representational sketching. (2-2). Co-requisites: INDS 2364 and INDS 2386. Offered spring semesters. Course Equivalents: FACS 2387
Prerequisite: MATH 1332, or MATH 1314, or MATH 1324, or MATH 1342.

INDS 2388. Building Systems for Interiors. 3 Hours. [TCCN: ARCH 2312]
This course focuses on helping students to develop an understanding of building systems as they apply to interior design. Student understanding of systems is communicated in drawing of construction, electrical, mechanical, ceiling and floor systems as part of design solutions. (2-2). Offered spring semesters. Course Equivalents: FACS 2388
Prerequisite: INDS 2387 with a grade of C or better.

INDS 3332. Lighting Design for Interiors. 3 Hours.
This course provides basic principles of light and color, measurement and control of light as applied to human needs in both residential and commercial interiors. Environmental systems for day lighting and solar design are studied. (3-0). Offered fall semesters. Concurrent enrollment in INDS 3338. Course Equivalents: FACS 3332
Prerequisite: INDS 2364, INDS 2387, and INDS 2388 with a grade of C or better.

INDS 3337. Studio III: Design Process. 3 Hours.
The student in this course will implement the design process in residential and commercial spaces through drawings and model construction techniques. Students will explore various rendering media and develop three-dimensional drawings along with volumetric study of spaces (1-4). Offered spring semesters. Course Equivalents: FACS 3337
Prerequisite: Grade of C or better in INDS 3332, INDS 3338, and INDS 3377.

INDS 3338. Studio II: Residential Design. 3 Hours.
The student will apply the design process to residential spaces. It will include development of schematic and technical drawings, material selection, perspective representations of space, and specifications. (1-4). Offered fall semesters. Concurrent enrollment in INDS 3332. Course Equivalents: FACS 3338
Prerequisite: Grade of C or better in ARTS 1316, INDS 2365, INDS 2388, and ETCM 2363.

INDS 3360. Interior Design Profession Practice & Procedure. 3 Hours.
This course includes fundamentals of business procedures used in interior design residential and commercial establishments. Practical application is implemented through design project management. (3-0). Offered spring semesters. Co-requisite: INDS 3337. Course Equivalents: FACS 3360
Prerequisite: Grade of C or better in INDS 3338.

INDS 3361. History of Furnishings II. 3 Hours.
This course is focused on the study of history of interiors, architecture, and furnishings from the post-Renaissance era to the present. Emphasis is given to the social, economic, and political conditions that influenced furniture, interior, and architectural design. Offered fall semesters.(3-0). Course Equivalents: FACS 3361 .

INDS 3365. Digital Drawing for Interior Design II. 3 Hours.
Students in this course focus on computer applications through digital design, three-dimensional modeling, perspective drawing, problem identification, problem solving, and research techniques applied to interior environments. Offered spring semesters. Course Equivalents: FACS 3365
Prerequisite: ETCM 2363, INDS 2365, and INDS 2388.

INDS 3377. Interior Codes & Standards. 3 Hours.
A study of laws, codes, standards and regulations that are in effect to protect human health and safety for interiors. Included are the fire and life safety codes, barrier-free design, and ergonomics. (3-0). Offered fall semesters. Course Equivalents: FACS 3377
Prerequisite: Junior Standing.

INDS 4330. Studio IV: Commercial Design I. 3 Hours.
A study is made of design development of interiors through analysis of space and structure. Focus is on comprehensive design solutions implemented through multiphase projects including space planning, contract documents, specifications, finish selections, sustainability, and various presentation techniques. (1-4). Offered fall semesters. Course Equivalents: FACS 4330
Prerequisite: INDS 3332, INDS 3337, INDS 3338, INDS 3360, INDS 3365 and INDS 3377 with a grade of C or higher and senior standing.

INDS 4331. Studio V: Commercial Design II. 3 Hours.
The capstone course for Interior Design majors, this course includes a semester-long project or a series of comprehensive projects preparing students for internship and professional office settings. Students are encouraged to demonstrate knowledge gained to-date to solve various design situations. Graphics presentations include hand and digital drawings and media. (1-4). Offered spring semesters. Course Equivalents: FACS 4331
Prerequisite: INDS 4330 and ETCM 3372 with a grade of C or higher, senior standing.

Kinesiology (KINE)

KINE 1110. Racquet Sports. 1 Hour.
This course will include fundamental skill development, knowledge on rules, strategies, and techniques specific to two or more racquet-related activities that may include badminton, pickle ball, raquetball, and/or tennis. This course includes physical activity and demonstration of skill learning.

KINE 1113. Basketball and Soccer. 1 Hour.
This course will include fundamental skill development, knowledge on rules, strategies, and techniques specific to basketball and soccer, presented at either the beginning of intermediate level. This course includes physical activity and demonstration of skill learning.

KINE 1114. Rhythmic Activities & Dance. 1 Hour.
This course introduces students to the skills, concepts and knowledge necessary for teaching development and performance sequences in various rhythmic activities (creative rhythms, routines with small hand apparatus, and novelty dances) and dance forms (folk, social, square, contra, and line). This course includes physical activity and demonstration of skill learning. Required for BS in KINE and Education Double Majors. This course is offered in Spring only.

KINE 1115. Track & Field. 1 Hour.
The student will gain proficiency in fundamental skills in gymnastics and track and field events, as well as an understanding of basic terminology associated with judging and spotting. Enrollment limited to Kinesiology majors and minors.

KINE 1116. Student-Athlete Affairs. 1 Hour.
This course is based upon the National Collegiate Athletic Association CHAMPS/Life Skills Program and is designed to assist the student-athlete in developing skills in the areas of academics, personal growth, career choice, and commitment to service. Enrollment is limited to members of athletic teams. Substitution of this class for the University's activity requirement is not permitted. No more than four hours of KINE 1116 can be counted toward the degree. Approval for enrollment must be obtained from the student's coach prior to registration.

KINE 1117. Lifetime Physical Activities. 1 Hour.
Each class will have skills, knowledge and techniques presented at either the beginning or intermediate level in one or more of the lifetime and individual sports.

KINE 1120. Martial Arts. 1 Hour.
This course will introduce the student to basic martial arts concepts, principles, terminology, safe practices, and applied execution of skills and strategies. An emphasis will be placed on teaching the student basic self-defense techniques and their application in a variety of situations. The student will improve their general physical fitness and skill performance.

KINE 1331. Foundations of Kinesiology. 3 Hours.
This course serves as a base for all kinesiology courses. Units will include historical development, philosophical implications, physical fitness, scientific bases of movement, and educational values of kinesiology and career path exploration and identification.

KINE 2110. Scuba/Diving. 1 Hour.
This course will be offered for all levels of swimming (beginning through advanced), diving, synchronized swimming, or scuba diving. For advanced life saving and water safety instructors see KIN 232.

KINE 2111. Golf & Recreational Activities. 1 Hour.
This course presents rules, knowledge and skills in golf, archery and another leisure time activity selected on a rotational basis. Half a semester is devoted to golf, with equal time allotted to archery and the other named activity. This course includes physical activity and demonstration of skill learning.

KINE 2113. Softball and Volleyball. 1 Hour.
This course will include fundamental skill development, knowledge on rules and strategies, and techniques specific to softball and volleyball at the beginning level.This course includes physical activity and demonstration of skill learning.

KINE 2114. Weight Training and Physical Conditioning. 1 Hour.
Experiences in this course will include skills, knowledge, techniques, and safety procedures of weight training and physical conditioning at the beginning level. This course includes physical activity and demonstration of skill learning.

KINE 2115. Lifetime Health and Wellness. 1 Hour. [TCCN: PHED 1164]
Students will gain an understanding of physical conditioning and wellness pertaining to the five components of health-related fitness. Students will develop an understanding of lifestyle related diseases and behavior modification techniques. In addition, there will be opportunities to participate in a variety of movement experiences related to fitness.

KINE 2119. Kinesiology Activities. 1 Hour.
Activities can include special or unique areas as instructors are available. This will include those activities which are not offered on a regular basis including aerobic dance, aquatic exercise, etc.

KINE 2330. First Aid and CPR - American Red Cross. 3 Hours.
A course for those who wish to acquire a knowledge of Red Cross emergency and preventive measures. Successful completion leads to CPR and first aid certification. Students may become instructors through additional American Red Cross training. (Also listed as HLTH 2330.) Course Equivalents: HLTH 2330 .

KINE 2388. Officiating Sports. 3 Hours.
This course includes a study of the rules, interpretations, and the mechanics of officiating. The course is designed to develop the skills and knowledge required in the officiating of football, basketball, baseball, soccer, track and field, and other interscholastic sports.

KINE 3100. Fundamentals of Basketball Coaching. 1 Hour.
Students study the fundamental preparation, operation, expertise and management necessary to coach and conduct a basketball program. Students will learn about rules, techniques, tactics, season planning, strategy, and applications related to the coaching of basketball. This course is offered online only. Semester: 5A/5B/5C.
Prerequisite: 45 hours.

KINE 3101. Fundamentals of Volleyball Coaching. 1 Hour.
Students study the fundamental preparation, operation, expertise, and management necessary to coach and conduct a volleyball program. Students learn about rules, techniques, tactics, season planning, strategy, and applications related to the coaching of volleyball. This course is offered online only. Semester: 5A/5B/5C.
Prerequisite: 45 hours.

KINE 3102. Fundamentals of Football Coaching. 1 Hour.
Students study the fundamental preparation, operation, expertise, and management necessary to coach and conduct a football program. Students will learn about rules, techniques, tactics, season planning, strategy, and applications related to the coaching of football. This course is offered online only. Semester: 5A/5B/5C.
Prerequisite: 45 hours.

KINE 3103. Fundamentals of Track & Field/Cross Country Coaching. 1 Hour.
Students study the fundamental preparation, operation, expertise, and management necessary to coach and conduct a track field/cross country program. Students learn about rules, techniques, tactics, season planning, strategy, and applications related to the coaching of track field/cross country. This course is offered online only. Semester: 5A/5B/5C.
Prerequisite: 45 hours.

KINE 3104. Fundamentals of Baseball and Softball Coaching. 1 Hour.
Students study the fundamental preparation, operation, expertise, and management necessary to coach and conduct a baseball and softball program. Students will learn about rules, techniques, tactics, season planning, strategy, and applications related to the coaching of baseball and softball. This course is offered online only. Semester: 5A/5B/5C.
Prerequisite: 45 hours.

KINE 3105. Fundamentals of Soccer Coaching. 1 Hour.
Students study the fundamental preparation, operation, expertise, and management necessary to coach and conduct a soccer program. Students learn about rules, techniques, tactics, season planning, strategy, and applications related to the coaching of soccer. This course is offered online only. Semester: 5A/5B/5C.
Prerequisite: 45 hours.

KINE 3117. Competency in Motor Skills. 1 Hour.
This basic skills course is designed to equip prospective physical education teachers with the motor skill competencies necessary to teach physical education in EC-12 schools. Prospective physical education teachers will be assessed on skills in tennis, volleyball, soccer, and other sports. Enrollment limited to BS in KINE and Education Double Majors. This course is offered in the Fall only.

KINE 3173. Exercise Physiology Laboratory. 1 Hour.
Students apply content knowledge of exercise physiology through various lab-based assessments. Each of the components of health-related fitness (cardiovascular endurance, body composition, flexibility, muscle strength, and muscle endurance) will be addressed. Required for KINE-CES and HPWM majors. KINE-CES and HPWM majors must co-enroll in KINE 3373.
Prerequisite: KINE 2115.

KINE 3320. Foundations of Sport Coaching. 3 Hours.
Students in this course focus on sport science principles associated with the coaching profession. Course material adheres to the objectives created by the National Standards for Athletic Coaches and the United States Council for Coaching Excellence.
Prerequisite: 45 credit hours.

KINE 3321. Applied Kinesiology. 3 Hours.
Students analyze human movement in order to understand and apply exercise and sport training principles for improved human performance. This course is designed for students preparing to be coaches, physical educators, or teachers of sport, exercise, or physical activity. Required for Sport Coaching Minors and BS in KINE and Education Double Majors. Advanced Elective for all other majors.
Prerequisite: 45 credit hours or instructor approval.

KINE 3362. Functional Kinesiology. 3 Hours.
A study of human motion in two broad areas: the neurological and mechanical aspects of human movement, as well as muscle structure and functions. Application of these two areas to motor skills analysis is emphasized.
Prerequisite: BIOL 2401 or BIOL 2403, (KINE 1331 or ATTR 2300 or HLTH 1360,) and 45 Credit Hours, or instructor approval.

KINE 3363. Assessment in Kinesiology. 3 Hours.
This course presents information on the construction and administration of tests evaluating fitness and motor skills used in sports. Issues in grading and evaluation are also addressed. This course is offered in the Fall and Summer semesters.
Prerequisite: 45 credit hours or instructor approval.

KINE 3364. Motor Learning. 3 Hours.
This course is designed for students who are preparing for a variety of professions in which the teaching, training, or rehabilitation of motor skills is involved. The goal of this course is to provide a theory-based foundation about the learning of motor skills to facilitate implementation of appropriate strategies and techniques for instructional, training, and rehabilitation applications.
Prerequisite: KINE 1331 or ATTR 2300 or HLTH 1360; and 45 credit hours.

KINE 3365. Sport Law. 3 Hours.
Students in this course develop a comprehensive and systematic overview of fundamental legal issues in sport. Topics in this course are intended to introduce students to the legal issues that are most critical to the management of sport including liability, gender equity, risk management, tort law, labor law, and collective bargaining. This course is offered in the Spring only.
Prerequisite: 45 credit hours.

KINE 3367. Lifespan Motor Development. 3 Hours.
This course explores the theories of motor development and the applications of these theories to identify continuous processes of motor behavior across the lifespan. The factors mediating human growth and development will be applied. The course focuses on the relationships among growth, gender, maturation, motor performance and the person's context. The critical developmental considerations, with respect to planning and directing movement experiences for individuals across the lifespan, will be emphasized in the course.
Prerequisite: 45 credit hours.

KINE 3368. Skill Themes and Movement Concepts. 3 Hours.
This course is designed to help the future teacher of physical education for elementary grade children, understand the "skill theme approach" to children's physical education curriculum, based on skill themes, movements concept and generic levels of skill proficiency. Required for BS in KINE and Education Double Majors. This course is offered in the Fall only.
Prerequisite: KINE 1331 or ATTR 2300, and 45 credit hours.

KINE 3372. Sport Skills Analysis. 3 Hours.
This course will introduce the instructional process of analyzing and sequencing skill components and performance techniques found within team and individual sports. The student will investigate the process of a task analysis and other skill sequencing experiences. Aspects of lesson progression and construction will be incorporated throughout the course while maintaining a focus on motor skill acquisition. Required for Sport Coaching Minors.
Prerequisite: 45 credit hours.

KINE 3373. Physiology of Exercise. 3 Hours.
This course is designed to develop an understanding of the manner in which the body reacts to the exacting requirements of activity and exercise. KINE-CES and HPWM majors must co-enroll in KINE 3173.
Prerequisite: 45 Credit Hours and BIOL 2401 and BIOL 2402 or BIOL 2403 and BIOL 2404, and KINE 1331 or ATTR 2300; or instructor approval.

KINE 3378. Administration of Kinesiology and Sport. 3 Hours.
The purpose of this course will be to examine management theory and practice related to the sport industry. In addition, a variety of specializations associated with the field of sport management will be examined to help the student garner a better understanding of available career opportunities in this sector of business. The application of concepts to scholastic programs will also be discussed. This course is offered in Fall only.
Prerequisite: 45 credit hours or instructor approval.

KINE 3388. Sports in Contemporary Society. 3 Hours.
The content of the course will provide students with an introduction to the sociology of sport. This course focuses on the study of sport and the impact on society, including gender, and race. The study of sport from a socio-cultural perspective will implore students to make connections from sport and its relationship to historical and contemporary events, social and cultural structures, as well as political climate. Topics for discussion will include current sports-related controversies. This course is offered in the Spring and Summer semesters only.
Prerequisite: 45 credit hours or instructor approval.

KINE 3389. Gender and Sport. 3 Hours.
This course offers an introduction to current scholarship and debates surrounding issues of gender in sport. The purpose of this course is to analyze the complex interactions of gender, race, sexuality, and class within sport. A critical perspective will be used to examine sport as a significant social institution and to explore its relationship to the cultural construction and interpretation of gender. This course is offered in the Fall only.
Prerequisite: 45 credit hours.

KINE 4117. Practicum. 1 Hour.
A course in which students serve as interns in a laboratory situation where emphasis is placed upon teaching skills. This provides a qualified student with an opportunity to gain teaching experience. Student must have a professor who has agreed to supervise the project. Course Equivalents: HLTH 4117
Prerequisite: Permission of department chair.

KINE 4314. Advanced Strength Training. 3 Hours.
Students in this course focus on the fundamentals of strength and conditioning and are prepared for a career as a certified strength and conditioning specialist. This class prepares students to take the national strength and conditioning certification exam.
Prerequisite: KINE 2114, KINE 2115, KINE 3362, KINE 3373, and 75 credit hours.

KINE 4335. Sport and Exercise Psychology. 3 Hours.
This course deals with understanding of the psychological make-up of the athlete. It explores traditional myths, syndromes and stumbling blocks facing the modern day athlete and how these may be overcome. The course will focus on the dynamics of the coach/athlete relationship.
Prerequisite: 75 credit hours.

KINE 4361. Managing Health Promotion in the Workplace. 3 Hours.
A course designed to prepare the fitness professional with the tools and knowledge to establish special programs, which promote fitness, wellness, and health promotion in corporate, occupational, private, or industrial settings. Course Equivalents: HLTH 4361
Prerequisite: 75 credit hours or instructor approval.

KINE 4362. Biomechanical Analysis. 3 Hours.
This course focuses on the quantitative biomechanical analysis of human movement and its relationship to activity, performance, and injury causation and prevention. Students will also explore research methods and investigations in biomechanics.
Prerequisite: KINE 3362 with a minimum grade of C, and (PHYS 1305 and PHYS 1105 or PHYS 1301 and PHYS 1101), and 60 credit hours.

KINE 4363. Elementary Physical Education. 3 Hours.
This course is concerned with a study of fine and gross-motor activities and developmental progressions of pre-school children. Opportunities are given for field-based experiences in teaching children motor skills. Required for BS in KINE and Education Double Majors. This course is offered in the Spring only.
Prerequisite: KINE 3368 with a minimum grade of C.

KINE 4364. Fitness Education. 3 Hours.
Students in this course are introduced to the foundations and components of health-related fitness, appropriate curriculum for children and adolescence (Pre-K through 12) programming, effective teaching principles, and assessment of physical activity and fitness. This course prepares students to sit for the Physical Best Health-Fitness Specialist Certification.
Prerequisite: KINE 3321 or KINE 3373 or Instructor approval.

KINE 4365. Directing Wellness Programs. 3 Hours.
Students address the general administrative and daily operational skills required to direct a wellness program in corporate, institutional, and community settings. Emphasis is placed on the collaborative and professional skills that are needed to manage wellness programs. Course Equivalents: HLTH 4364
Prerequisite: 75 credit hours or instructor approval.

KINE 4366. Teaching Secondary Physical Education. 3 Hours.
This course examines the designing of physical education programs, teaching of physical education programs, analysis of student performance in a physical education program, and implementation of a physical education program at the secondary level. Opportunities are provided to work with physical education students in the secondary setting. Course Equivalents: KINE 3375
Prerequisite: KINE 3368, KINE 4363, and and 60 Credit Hours.

KINE 4369. Adapted Physical Activity. 3 Hours.
This course is designed to provide an introduction to adapted physical activity including sports and leisure for persons with disabilities across school, community, and clinical based programs. This course will provide information and knowledge on how to teach movement skills to persons with disabilities in various physical activity settings. Opportunities are provided to work with individuals with disabilities on-and off-campus.
Prerequisite: 60 credit hours.

KINE 4373. Advanced Topics in Physiology of Exercise. 3 Hours.
This course bridges the gap between basic undergraduate and graduate physiology of exercise. This course draws upon current research to build upon the basic principles of exercise physiology to develop a more advanced understanding of how exercise affects the body.
Prerequisite: KINE 3373 and 75 credit hours.

KINE 4375. Kinesiology Research Methods. 3 Hours.
Students in this course focus on basic, clinical, and applied research in kinesiology settings. Particular emphasis is given to understanding the body of work on a topic, experimental design, and the research process. Students participate in a research project related to kinesiology.
Prerequisite: KINE 3362, KINE 3364, KINE 3173, KINE 3373, and 75 credit hours or instructor approval.

KINE 4377. Principles of Exercise Testing and Prescription. 3 Hours.
This course is designed to provide the student with the theoretical background and practical experience necessary for the safe and scientific evaluation of physical fitness, particularly as it relates to health and disease and the development of programs for remediation, maintenance and enhancement of motor and health-related qualities.
Prerequisite: KINE 3362 and KINE 3373 with a minimum grade of C; and 75 credit hours.

KINE 4392. Problems in Kinesiology. 3 Hours.
A directed individual study of an approved problem related to the field of kinesiology. Student must have a professor who has agreed to supervise the project.
Prerequisite: 9 advanced hours in Kinesiology and permission of the department chair.

KINE 4393. Adult Fitness Management. 3 Hours.
This course is designed to provide the student with the theoretical background and practical experience necessary for a successful internship experience.
Prerequisite: KINE 2114, KINE 2115, ATTR 3370, KINE 3373, and KINE 3173; and 75 Credit Hours.

KINE 4394. Internship. 3 Hours.
This course provides the study with opportunities to demonstrate competencies developed in previous courses by working in an agency under the supervision of a qualified practitioner. This course requires 200 contact hours at the approved internship site to be completed within a single semester. The course can be completed concurrently with KINE 4395.
Prerequisite: KINE 4393, KINE 4377 with a minimum grade of C and senior standing.

KINE 4395. Internship II. 3 Hours.
Students complete an additional 200 hours of an internship experience and serves as the second half of the 400-hour internship for undergraduate students. This course allows students to either gain experience in a new setting, or to delve deeper into the experiences gained in KINE 4394.
Prerequisite: KINE 4393 and KINE 4377.

Learning Technologies (LETE)

LETE 1301. Technology in Education. 3 Hours.
Students examine the application of technology in educational settings. Topics include past and current perspectives on educational technology, development of in-person and web-based lesson activities using instructional technology products, and key strategies for integrating technology into different subject areas in educational settings.

LETE 1302. Online Technology and Learning Strategies. 3 Hours.
Students examine online technology skills and instructional/learning strategies to meet minimum-level competencies with online learning and distance education. Topics include self-regulated learning and collaboration in online learning environments.

LETE 1303. Learning Technology Tools. 3 Hours.
Students examine instructional/learning technology applications and tools, including computer hardware, operating systems, software applications, and peripheral devices in instructional, learning, and training settings. Topics include networking, communications, and multimedia in learning technology.

LETE 2301. Web Technologies for Learning. 3 Hours.
Students examine web design for learning and training. Topics include three main languages for building educational websites (HTML, CSS, and JavaScript) and 3rd party environments.

LETE 2302. Multimedia Learning Design & Development. 3 Hours.
Students examine multimedia design for learning and training. Topics include designing instructional and interactive multimedia artifacts using Adobe Fireworks, Adobe Photoshop, and authoring software.

LETE 2303. Systematic Evaluation & Development for Learning Design I. 3 Hours.
Students examine digital product design for learning and training. Topics include identification of user needs and translation of learner problems into developing digital solutions.

LETE 3301. Learning and Technology Foundations. 3 Hours.
Students explore various pedagogical approaches, and design and implement technology-based lessons for learning, instruction, and training. Topics include instructional and learning design theories in the field of instructional/learning technology. Concurrent enrollment is allowed.
Prerequisite: LETE 1301 or LETE 1302 or LETE 1303.

LETE 3302. Learning Design. 3 Hours.
Students develop skills and experiences that allow for the effective and appropriate design of technology into learning, instruction, and training activities. Topics include different types of learning design models.

LETE 3303. Systematic Evaluation & Development for Learning Design II. 3 Hours.
Students apply digital product design to develop digital solutions for learning and training. Topics include learner discovery, design research, lean UX (lean user experience), and evaluation of digital products.
Prerequisite: LETE 2303.

LETE 4301. Seminar in Learning Technologies. 3 Hours.
Students review and evaluate learning technologies in educational and training settings. Topics include current trends, issues, and professional skills in the field of instructional/learning technology.
Prerequisite: 24 Hours of LETE Courses.

LETE 4302. Field Experience in Learning Technologies. 3 Hours.
Students complete their first semester-long internship experience in the field of instructional/learning technology. Students will implement training needs analysis under the mentorship of the field experience supervisor.
Prerequisite: 24 hours of LETE courses.

LETE 4303. Learning Technology Capstone. 3 Hours.
Students increase their impact and effectiveness as an instructional/learning technology leader by developing an initiative for a client-based project that can be focused on professional industry, community, or school. Students are required to develop a case study and case analysis for this capstone project.
Prerequisite: 24 hours of LETE courses.

Library Science for Sch Librns (LSSL)

LSSL 2363. Literature for Children and Teens. 3 Hours.
Students are acquainted with the selection, critical analysis, and historical development of literature for children and young adults. Emphasis is placed on selecting materials that meet the needs and interests of children and young adults, identifying techniques and strategies that will motivate all children and young adults to read and respond to literature, and developing critical abilities for evaluating literature and related materials. A strong multicultural element is also a part of this course. Course Equivalents: LSSL 3363
Prerequisite: Must have sophomore standing or above.

LSSL 3361. Literature and Related Materials for Children. 3 Hours.
Students study the historical development, critical analysis, and selection of materials for children. Identification and use of folklore, poetry, imaginative, realistic, and informational literature. Stresses developmental needs of children, including those of various ethnic groups. Emphasis is placed on motivational techniques.
Prerequisite: Must have junior standing or above.

LSSL 3362. Literature and Related Materials for Young Adults. 3 Hours.
Students study selection of literature, the approved selection tools, the preparation of bibliographies, oral and written reports, book talks, critical evaluations, annotations, and the sharing of reading experiences with a stress on the developmental needs of young adults. Emphasis is placed on motivational techniques.
Prerequisite: Must have junior standing or above.

LSSL 4010. Library Science Workshop. 1-3 Hours.
Students explore current topics in school libraries. One semester hour is earned, and the course may be repeated for a maximum of three hours. NOTE: Maximum of three hours workshop coursework allowed in a student's program.

LSSL 4375. Directed Independent Study in Library Science. 3 Hours.
Students engage in an arranged professional and developmental learning experiences incorporating a practical application of Library Science skills and practices to include internships, individual research, and studies.

Management (MGMT)

MGMT 3310. Principles Of Management. 3 Hours.
This course is concerned with the principles and methods used in managing and operating organizations, both domestically and abroad. Course coverage includes analysis of the organization's environment and the managerial functions of planning, organizing, leading, motivating, and controlling.
Prerequisite: 42 completed hours.

MGMT 3320. Organizational Behavior. 3 Hours.
Students learn about individual and group behavior in organizations and how it affects the achievement of organizational objectives.
Prerequisite: MGMT 3310 (can be taken concurrently).

MGMT 3325. New Product Commercialization. 3 Hours.
Students address the issues of formulation, financing and operations of bringing new products to market. The course will include a group term project designed to teach the students the process of commercializing new products. Topics may include environmental screening, developing and testing the concept of the product, funding, patents and copyrights.
Prerequisite: MGMT 3310.

MGMT 3327. Management of Innovation and Technology. 3 Hours.
Students address issues concerning the management of innovation and technology, such as developing creative potential in individual and organizations and the management of creative employee. Topics may include the importance of innovation and technology to business and society, forecasting for innovation and technology, the value of creation, types of innovation, and the role technology plays in innovation.
Prerequisite: MGMT 3310.

MGMT 3330. Human Resource Management. 3 Hours.
Students examine core human resource management practices, including job analysis, recruitment and selection, training and development, performance management, compensation and benefits, and employee and labor relations as well as explore legal requirements affecting human resource management decisions.
Prerequisite: MGMT 3310.

MGMT 3335. Variety in the Workplace. 3 Hours.
Students learn to recognize the benefits of diversity, equity, and inclusion within the workplace. This includes surface-level diversity like gender, ethnicity, race, and age as well as deep-level diversity like education, personality, and values. The course addresses both the challenges and opportunities available with a diverse workforce in efforts to gain a competitive advantage.
Prerequisite: 42 hours.

MGMT 3348. Small Business Management. 3 Hours.
Students embark on a comprehensive study of all areas of operations and management of the small business enterprise. Topics covered may include: ownership form, site analysis, planning, organizing, staffing, financial control, inventory control, and marketing tactics. Course Equivalents: MGMT 4310 .

MGMT 3350. Services Marketing Management. 3 Hours.
Students examine the characteristics of the service domain. The planning, organization, production, and marketing of quality services is the focus of the course.
Prerequisite: MGMT 3310 and MKTG 3310.

MGMT 4080. Independent Study. 1-3 Hours.
The credit in this course varies according to the work performed. The student may pursue special studies for which a special course is not organized. Variable Credit (1 to 3). Course Equivalents: MGMT 4380
Prerequisite: 30 hours in Business and Economics and consent of the instructor.

MGMT 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Management topics and concepts in a course setting. Variable Credit (1 to 3). Course Equivalents: MGMT 4385 .

MGMT 4320. International Field Studies in Management. 3 Hours.
Students engage in directed studies of organizational behavior, managerial functions, entrepreneurship, and small business in a study abroad program.
Prerequisite: Permission of Instructor or Department Chair.

MGMT 4325. Family Business Management. 3 Hours.
Students are provided an overview of family business, including an exploration of factors contributing to economic success, family harmony, and business continuity, and they explore the challenges and opportunities facing individuals and families involved in family business relationships. Some of the specific topics may include the family system, culture, entrepreneurial influences, conflict and negotiation, career planning, ethics, governance, succession and strategic planning, professional support relationships, and survival skills as a son or daughter in a family business.
Prerequisite: Junior Standing.

MGMT 4327. Corporate Entrepreneurship. 3 Hours.
Students explore the concepts, key factors, and practices of entrepreneurial activity as a process inside corporations and examines ways entrepreneurial transformation can be achieved in larger organizations. Course topics emphasized include internal ventures and external collaborative approaches that include corporate venture capital investments, licensing, different types of alliances, and formal joint ventures.
Prerequisite: Junior Standing.

MGMT 4330. Compensation. 3 Hours.
Students examine the components of a compensation system, which include internal alignment, external competitiveness, recognizing employee contributions, and the management of the system, to promote effective pay determination decisions.
Prerequisite: MGMT 3330.

MGMT 4335. Management and Labor Relations. 3 Hours.
Students study the legal perimeter of management labor relations, the collective bargaining process, and problems of union contract compliance.
Prerequisite: MGMT 3330.

MGMT 4340. International Management. 3 Hours.
Students are challenged to consider how businesses operate in different global environments. Students have the opportunity to learn how businesses manage effectively across borders and cultural differences by expanding their insight regarding how international and multi-national companies operate in the global environment. As a result, students gain an appreciation for working and managing in a global environment.
Prerequisite: MGMT 3310.

MGMT 4345. Social Responsibility of Management. 3 Hours.
Students study the role business plays in our society and the obligations and responsibility that it has to society. Students examine the ethical, environmental, and cultural implications of industrial/technological societies and their history.
Prerequisite: MGMT 3310.

MGMT 4355. Human Resource Development. 3 Hours.
Students are provided an overview and foundation of the human resource training and development (HRD) profession, they will identify current issues for HRD practitioners and researchers as well as highlight current work place changes and their impact on human resource training and development.
Prerequisite: MGMT 3330.

MGMT 4389. Internship. 3 Hours.
Student are provided with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit.
Prerequisite: Department approval and minimum overall and COBA GPA of 2.5.

MGMT 4390. Strategic Management & Policy. 3 Hours.
Students learn to evaluate the external environmental factors and internal organizational characteristics and contexts for the purpose of formulating competitive strategies.
Prerequisite: Senior standing, MGMT 3310, MKTG 3310 and FINC 3320.

Management Information Systems (MGIS)

MGIS 1301. Introduction to Information Systems. 3 Hours.
Students are provided with the knowledge and skills necessary to succeed in today's computing society. Students make use of hardware and software to efficiently and effectively solve problems and make better decisions.

MGIS 1305. Business Computer Applications. 3 Hours. [TCCN: BCIS 1305]
This course is designed to develop student proficiency with business software. These skills include producing properly formatted business documents and reports, creating computerized spreadsheets for problem-solving and decision-making, and as a tool for preparing effective presentations. Course Equivalents: BUAD 1305 .

MGIS 3310. Principles of Management Information Systems (MIS). 3 Hours.
Students are introduced to the management and use of information systems in organizations. Material presented is selected to increase the student's literacy in this rapidly changing field, including commonly used acronyms and emerging technologies. Organizational applications of information systems are discussed for the functional areas of the firm.
Prerequisite: 42 hours.

MGIS 3315. Programming for Business. 3 Hours.
Students are introduced to the implementation of common business applications using current visual application development platforms. Basic structured and object-oriented computer programming techniques are covered in the context of the creation of business-oriented systems. Course Equivalents: MGIS 2320
Prerequisite: CSTE 1330 or BUAD 1305 or MGIS 1301 and MATH 1324 or 1314 or MATH 1420.

MGIS 3320. E-Commerce Implementation. 3 Hours.
Students are introduced to the implementation of common business applications for e-commerce using Internet related technologies. Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), scripting language(s), and other current technologies are covered in the context of e-commerce. Course Equivalents: MGIS 4320
Prerequisite: MGIS 3310 and 42 credit hours.

MGIS 3330. Business Database Management. 3 Hours.
Students are introduced to databases. Design and implementation principles, including entity-relationship modeling and normalization are studied and applied in order to create an organizational database. Students become better computer users, who are more knowledgeable about the uses of databases in solving business problems, and learning a new way to think about business and its information needs.
Prerequisite: MGIS 3310.

MGIS 4080. Independent Study. 1-3 Hours.
The student may pursue studies for which a special course is not organized. The credit in this course varies according to the work performed. Variable Credit (1 to 3). Course Equivalents: MGIS 4380 .

MGIS 4085. Special Topic. 1-3 Hours.
Students study emerging information technologies. Class participants learn about the technical fundamentals and business applications associated with information technologies. Variable Credit (1 to 3). Course Equivalents: MGIS 4385
Prerequisite: MGIS 3310.

MGIS 4315. Decision Analysis & Analytics. 3 Hours.
Students apply topics related to business analytics. A major focus is placed on the importance of collecting and analyzing data by creating models for making better decisions and improving business practices and strategies. Topics covered include descriptive analytics, predictive analytics, and prescriptive analytics. Students learn to apply business analytic tools, and to communicate the results. Emphasis is placed on applications, concepts and interpretation of results.
Prerequisite: BANA 2372 or MATH 1342.

MGIS 4330. Business Database Management II. 3 Hours.
Students are provided knowledge and skills for database design, development, and implementation in a multi-user business environment, using a database management system (DBMS). Structured Query Language (SQL), a database procedural language, and other current technologies are covered in the context of DBMS.
Prerequisite: MGIS 3330.

MGIS 4340. Systems Analysis & Design. 3 Hours.
Students acquire knowledge and skills for analyzing an organization's information needs and designing, evaluating, and implementing computer-based information systems using a structured approach. Special attention is given to understanding the needs of an organization and translating those needs into a solution recommendation following project management best practices and a structured methodology. Course Equivalents: MGIS 3360
Prerequisite: MGIS 3310.

MGIS 4350. Business Network Management. 3 Hours.
Students learn the current and emerging telecommunications services and networking technologies with emphasis on their strengths, limitations, and business applications. In addition, students investigate aspects of installing and managing networks within business organizations. Covered topics may include commonly used network media, operating systems, LAN and WAN technologies, inter-networking approaches, and media.
Prerequisite: MGIS 3310.

MGIS 4360. Design and Implementation of Enterprise Resource Planning. 3 Hours.
Students study the types of issues that managers need to consider in implementing cross-functional integrated systems. Students learn the general nature of enterprise computing, re-engineering principles, and the technical foundations of client/server systems and enterprise information architectures. Topics may include the tools and methodology, modules, processes, industry initiatives, and different types of enterprise information systems, primarily SAP ERP.
Prerequisite: MGIS 3310.

MGIS 4365. Business Process Integration Using ERP System Configuration. 3 Hours.
Students gain an understanding and appreciation of the role that Enterprise Resource Planning (ERP) systems play in today's business environment. Students use an ERP system to gain an understanding of Business Process Implementation and how an entity's different functions are integrated and focused on accomplishing a common goal. Practical aspects of configuring an ERP system will also be explored.
Prerequisite: MGIS 3310 or ACCT 3324.

MGIS 4389. Internship. 3 Hours.
Students are provided with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit.
Prerequisite: Department approval and minimum overall and COBA GPA of 2.5.

Marketing (MKTG)

MKTG 3310. Principles Of Marketing. 3 Hours.
Students are provided general knowledge on the marketing of goods, services, and ideas. They focus on key marketing concepts and the role of marketing within organizations. Students learn how marketers deliver value in satisfying customer needs and wants in a dynamic global environment. Students learn to understand the elements of the marketing mix, market segmentation and targeting, marketing strategies, consumer behavior, marketing research, supply chain management, branding and product development, pricing strategies, professional selling, market planning, and promotion.
Prerequisite: 42 Credit Hours.

MKTG 3320. Consumer Behavior. 3 Hours.
Students study consumer decision-making processes in marketing and the factors that influence these processes.
Prerequisite: MKTG 3310.

MKTG 3328. Professional Selling. 3 Hours.
Students learn the principles of trust-based relationship selling used by businesses offering products or services to other businesses. Topics may include sales strategies and techniques to build trust, determine customers' needs, address their concerns, and close sales.
Prerequisite: MKTG 3310.

MKTG 3335. Retailing. 3 Hours.
Students study the evolution of retailing, the scope of retailing, store location, store layout, organization, the customer, buying markets, receiving and marketing merchandise, mark-up, stock control, merchandise plan, fashions, retail credit, accounting, insurance, and sales promotion.
Prerequisite: MKTG 3310.

MKTG 3350. Services Marketing Management. 3 Hours.
Students examine the characteristics of the service domain. The planning, organization, production, and marketing of quality services are the focus of the course.
Prerequisite: MKTG 3310.

MKTG 3360. Supply Chain Management. 3 Hours.
Students study the marketing channels of distribution and the management of the integrated supply chain for products and services. Students address both upstream (suppliers) and downstream (channels of distribution) organizational members. Topics may include purchasing, supplier selection/development, inter-organizational information systems, risk management, physical distribution, logistics, warehousing, channel relationships, and inventory management.
Prerequisite: MGMT 3310, MKTG 3310 and BANA 2372 or MATH 1342.

MKTG 3370. Integrated Marketing Communication and Promotional Strategy. 3 Hours.
Students study contemporary issues in marketing communications. An examination of how the elements of the promotional mix, with emphasis on advertising, are used to develop effective marketing strategies.
Prerequisite: MKTG 3310.

MKTG 4080. Independent Study. 1-3 Hours.
The student may pursue special studies for which a special course is not organized. The credit in this course varies according to the work performed. Variable Credit (1 to 3). Course Equivalents: MKTG 4380
Prerequisite: 30 hours in Business and Economics and consent of the instructor.

MKTG 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Marketing topics and concepts in a course setting. Variable Credit (1 to 3). Course Equivalents: MKTG 4385 .

MKTG 4330. Sales Management. 3 Hours.
Students study the selling process and the principles involved in the managing of the selling function. Students are provided an overview of the field of sales management and the role of the sales manager. Course Equivalents: MKTG 3330
Prerequisite: MKTG 3328.

MKTG 4340. International Marketing. 3 Hours.
Students engage in a survey of the economic, cultural, and political foundations of international marketing systems; the foreign consumer; product policies; and distributional structures as well as the promotional and marketing research phases of foreign operations.
Prerequisite: MKTG 3310.

MKTG 4350. Marketing Research. 3 Hours.
Students study the methods of collecting and analyzing information to be used in determining marketing strategy and making marketing decisions. The course is available to business majors only.
Prerequisite: MKTG 3310, BANA 3363.

MKTG 4360. Social Media Marketing. 3 Hours.
Students explore social media marketing principles and best practices for using social media for business. Students learn to construct social media marketing strategies that achieve desired business goals and create meaningful relationships with customers, clients, and colleagues. Topics include social media marketing strategy, influencer marketing, employee advocacy, corporate social media policies, social selling, and social media analytics for business.
Prerequisite: MKTG 3310.

MKTG 4389. Internship. 3 Hours.
Student are provided with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit.
Prerequisite: Department approval and minimum overall and COBA GPA of 2.5.

MKTG 4390. Strategic Marketing Management. 3 Hours.
Students learn the application of managerial principles in the development and execution of marketing strategy.
Prerequisite: MKTG 3310.

Mass Communication: Film (MCFL)

MCFL 3351. Moving Image Aesthetics. 3 Hours.
This course is an in-depth look into pre-production process as it directly pertains to storyboard creation, character development and design, pre-visualization techniques and principles of concept design. Students will script, shoot and edit short films, identifying challenges to the form and discussing the success of these challenges. Course Equivalents: MCOM 3351
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCFL 3352. Cinematography. 3 Hours.
This course is designed to study emotional and visual qualities of light, and the application of varying strategies in lighting for characters, film composition, lenses, filtration, and manipulation of images in mood creation, and practical techniques, product and narrative style of lightning. Students will utilize their critical thinking skills in producing various original images. Course Equivalents: MCOM 3352
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCFL 3353. Advanced Editing for Film & TV. 3 Hours.
This course is a continuation of film editing with concentration on standards expected by industry professionals. Students will learn various editing software applications and techniques of fine tuning film and TV projects. Course Equivalents: MCOM 3353
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCFL 3354. Film History I. 3 Hours.
Students in this course trace the history of film as a mass medium, art form, and industry from 1895-1945. Film's 19th century origins in photographic technologies and popular theater situate understanding of its emergence as a new medium; it progresses to cover the global film history in the silent era, the transition to sound, and the golden age of sound cinema. Specific film concepts, critical historical contexts, and canonical works are analyzed in a discursive setting. Course Equivalents: MCOM 3354
Prerequisite: MCOM 2366 and a score of 80 or higher on the Grammar Module.

MCFL 3355. Film History II. 3 Hours.
Students in this course trace the history of film as a mass media, art form, and industry from 1945 to the present day. World War II and the advent of electronic media fundamentally changed the societal and technological nature of cinema. Students analyze the global film history in the postwar era and the age of new and emerging media; they also explore specific film concepts, historical contexts and canonical works in a discursive setting. Course Equivalents: MCOM 3355
Prerequisite: MCOM 2366 and a score of 80 or higher on the Grammar Module.

MCFL 3356. Select Film Genre. 3 Hours.
Students in this course examine the history, nature, and major works of a selected film genre. Emphasis is placed on story design, production techniques, and cultural meanings specific to the particular genre. Topics and instructors rotate every semester, and may include sports, horror, melodrama, science fiction, or western films. Course Equivalents: MCOM 3356
Prerequisite: MCOM 2366 and a score of 80 or higher on the Grammar Module.

MCFL 3357. Seminar in Hispanic Cinemas / Arte de cines hispanohablantes. 3 Hours.
Students in this bilingual course explore the art of Spanish-language film and television. Emphasis is placed on appreciation and critical analysis of film as art. Topics vary each semester may vary from national cinemas (Mexico, Argentina, Colombia, Spain, and so on) to ethnic groups (Mexican-American cinema) to transnational Hispanic directors (Luis Buñuel, Alfonso Cuarón). Students should have a conversational understanding of Spanish but can participate in English.
Prerequisite: MCOM 2366 and a score of 80 or higher on the Grammar module.

MCFL 3358. Screenwriting I: Narrative Writing for Film & Television. 3 Hours.
Students study the theory and techniques of screenwriting and become familiar with the principles and techniques used in writing fiction for film and television. Students develop original scripts and acquire an understanding of how to write a screenplay.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371 and an 80 or higher on the grammar module.

MCFL 3359. Directing for Film and TV. 3 Hours.
In this course students explore directorial techniques and methods of narrative films and narrative TV drama. Emphasis will be placed on directing a shoot, scene construction, coverage, staging, blocking, camera perspectives and directing actors. Course Equivalents: MCOM 3359
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCFL 3372. Single Camera and Non-Linear Editing I. 3 Hours.
This course teaches pre-production, field production, and post-production techniques. Elements include field camera setup and operation, remote lighting, remote sound, and basic continuity editing with an emphasis on underlying principles of video technology. Students are expected to produce original content for broadcast on Cable Channel 7. Course Equivalents: MCOM 3372
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCFL 4350. Film Theory. 3 Hours.
Students in this course confront interrelated philosophical and social questions of film's nature as an art form, instrument, and mass medium. Major thinkers from different eras will be studied in a humanistic, critical, and discursive fashion through writing and discussion. Comparison of different critical approaches empowers a comprehensive understanding of film's cultural roles and potential. Course Equivalents: MCOM 4350
Prerequisite: Either (9 hours of MCFL) or (MCOM 2366 and 6 additional hours of MCOM).

MCFL 4375. Screenwriting II. 3 Hours.
The student develops original ideas from initial concept through completion of a full-length screenplay in a workshop environment. Screenplay structure for feature-length screenplays will be analyzed for character development and plot points.
Prerequisite: MCFL 3358.

Mass Communication: Journalism (MCJR)

MCJR 2362. News Reporting. 3 Hours.
This course covers theory and practice in covering news stories for mass media outlets, including those of public safety, government, education, health care, legal issues, and politics. Emphasis is placed on covering current events with written text, photos, audio and video. Course Equivalents: MCOM 2362
Prerequisite: MCOM 1332.

MCJR 3301. Podcasting. 3 Hours.
Students plan, create and launch journalistic podcasts with specific, non-fiction topics and high professional standards. High-quality audio will be recorded in on-campus recording facilities with hands-on instruction. The class also explores critical issues, practical effects and digital communities surrounding podcasting and audio journalism.
Prerequisite: a score of 80 or higher on the grammar module, MCOM 1332, MCOM 1371, MCOM 2371, and MCJR 2362.

MCJR 3360. Specialized Writing. 3 Hours.
This course will cover study and practice in writing for mass media in specialized areas. Emphasis is on developing a level of writing suitable for publication. Course may be repeated as topics vary. Course Equivalents: MCOM 3360
Prerequisite: A score of 80 of higher on the Grammar Module, MCOM 1332, and either (MCOM 1371, MCOM 2371, and MCJR 2362) or (9 additional hours of MCOM).

MCJR 3361. Broadcast Journalism. 3 Hours.
This class emphasizes the theory, techniques, and practice of television journalism. Emphasis is on writing and editing news copy and honing style and content skills appropriate for effective broadcast news writing. MCJR 3361 also requires production of broadcast news content and involves discussion of current issues facing broadcast journalists. Students are expected to produce original content for broadcast on Cable Channel 7. Course Equivalents: MCOM 3361, MCOM 3374
Prerequisite: A score of 80 of higher on the Grammar Module, MCOM 1332, and either (MCOM 1371, MCJR 2362, and MCOM 2371 or MCPD 3374) or (9 additional hours of MCOM).

MCJR 3362. Media Criticism. 3 Hours.
This course explores mass communication theory, focusing on social-behavioral and critical-cultural approaches. It emphasizes how the same issues (e.g. media violence) recur over time and how ideas about media have changed as new media technologies have emerged. Course Equivalents: MCOM 3362
Prerequisite: A score of 80 of higher on the Grammar Module, MCOM 1332, and either (MCOM 1371, MCJR 2362, and MCOM 2371 or MCPD 2374) or (9 additional hours of MCOM).

MCJR 3363. Spanish-Language Broadcasting. 3 Hours.
Students report and produce bilingual English and Spanish-language news content for the El Gato streaming radio station. Students will conduct interviews, field recordings, audio editing and other procedures both in English and in Spanish. Spanish-language media markets, differences and similarities between English and Spanish journalism practices, bilingual reporting techniques, and job-hunting strategies will also be covered. Course Equivalents: MCOM 3363
Prerequisite: Either MCOM 1332, MCOM 1371, MCJR 2362, (MCOM 2371 or MCPD 2374), and a score of 80 or higher on the Grammar Module; or MCOM 1332, MCOM 1371, and faculty approval.

MCJR 3364. Copyediting for News. 3 Hours.
This course focuses on the editor's functions in handling news copy from writing to production. Content includes copy editing and headline writing, picture cropping, caption writing, typography, graphics, source verification and leadership in the newsroom. MCOM 1332 and either (MCOM 1371, MCJR 2362, and MCOM 2371 or MCPD 2374 and a score of 80 or higher on the Grammar Module) or (MCOM 2362 and 6 additional hours of MCOM). Course Equivalents: MCOM 3364 .

MCJR 3365. Broadcast Performance. 3 Hours.
This course will prepare students for positions in announcing broadcast journalism for television, radio, and online. Students will examine techniques of voice and movement on television news, broadcast news announcing styles, interviewing techniques, and specialized announcing of events such as sports or cultural events. Course Equivalents: MCOM 3365
Prerequisite: MCOM 1332 and either (MCOM 1371, MCJR 2362, and MCOM 2371 or MCPD 2374, and a score of 80 or higher on the Grammar Module) or (9 additional hours of MCOM).

MCJR 3366. Photojournalism. 3 Hours.
This course will focus on reporting through the photo. The student will study the applications of news, feature, sports, weather, environmental portraiture and the photo essay. Fundamental principles of photojournalism such as history, freedom of press, ethics and the power of the image to convey the message. Course Equivalents: MCOM 3366
Prerequisite: MCOM 1332 and 9 additional hours of MCOM.

MCJR 3367. Public Affairs Reporting. 3 Hours.
Students cover news stories important to the public and community such as government, education, and criminal justice. Students explore best practices in community journalism and public affairs reporting in text and a variety of digital platforms with a particular focus on the connections between local, national and international news coverage.
Prerequisite: MCJR 2362.

MCJR 3369. Designing and Producing Scholastic Media. 3 Hours.
Students examine the principles of layout and design of school newspapers, magazines, and yearbooks. This course is designed for future educators preparing to teach journalism and may serve as advisors for student publications. Through in-depth examination of each publication's function, students will develop skills necessary to effectively communicate with readers through visual elements. Course Equivalents: MCOM 3369
Prerequisite: MCOM 1330, MCOM 1332, MCOM 1371, MCOM 2371 or MCPD 2374 and a score of 80 or higher on the Grammar Module.

MCJR 4361. TV News Producing. 3 Hours.
This course offers advanced instruction and practice in student-produced TV newscasts. Students are assigned duties for producing a newscast once a week, as well as gathering, shooting, writing, and editing TV news. Students are expected to produce original content for broadcast on Cable Channel 7. Course Equivalents: MCOM 4361, MCOM 4370
Prerequisite: Either (MCJR 3361, MCJR 3364, and MCPD 3373) or (MCOM 1332 and 12 additional hours of MCOM).

MCJR 4364. Investigative Reporting. 3 Hours.
This course examines strategies for gathering, analyzing and developing background information necessary for in-depth news writing and reporting. Students will be expected to use the research and analysis techniques to produce investigative journalism. Students are expected to produce original content for publication in The Houstonian. Course Equivalents: MCOM 4364
Prerequisite: Either (MCJR 3361, MCJR 3364, and 3 additional hours of MCJR) or (MCOM 1332 and 12 additional hours of MCOM).

MCJR 4365. Mobile & Social Reporting. 3 Hours.
Students use techniques drawn from various media and forms of writing to produce well-designed, effective communication packages for digital distribution. Students create and integrate written material, video, sound, and graphics into multimedia publications. Students are expected to produce original content for publication in The Houstonian. Course Equivalents: MCOM 4365
Prerequisite: Either (MCJR 3361, MCJR 3364, and 3 additional hours of MCJR) or (MCOM 1332 and 12 additional hours of MCOM).

MCJR 4366. Social Implications of Media. 3 Hours.
This course offers assessments of professional and industry trends, regulatory practices, socio-economic developments, and technological innovations that influence the institutions and traditions of the American mass media including news, entertainment and sports. Emphasis is placed on the changing roles of media and the impact of new communication technologies. Course Equivalents: MCOM 4366
Prerequisite: Either (MCJR 3361, MCJR 3362, and 3 additional hours of MCJR) or (MCOM 1332 and 12 additional hours of MCOM).

MCJR 4367. Reporting Sports Journalism. 3 Hours.
Students gain hands-on experience covering sports for the media, including game stories, features on players and coaches, hard news articles, and investigative and critical journalism on socio-political issues related to sports. Students are expected to produce original content for publication in The Houstonian. Course Equivalents: MCOM 4367
Prerequisite: Either (MCJR 2362 and 6 additional hours of MCJR or MCPD) or (MCOM 2362).

MCJR 4369. Leadership in the Scholastic Media Newsroom. 3 Hours.
Students examine leadership functions of scholastic media from coaching story development and advertising sales to budgeting and editorial decision making. This course focuses on the structures and procedures for effectively building and managing school newspaper and yearbook staffs, and is intended for future educators preparing to teach journalism, who will likely serve as an advisor for student publications. Course Equivalents: MCOM 4369
Prerequisite: Either (MCJR 3361, MCJR 3364, and 3 additional hours of MCJR) or (MCOM 1332 and 12 additional hours of MCOM).

Mass Communication (MCOM)

MCOM 1130. Media Literacy. 1 Hour. [TCCN: COMM 2300]
Students critically examine a wide variety of news, media, and digital information. Through class discussions and diverse media experiences, this course helps students understand modern media environments and create healthy media consumption habits. Discussion topics include mainstream and partisan news media, social media, image and video manipulation, fact checking, search engine manipulation and so-called "fake news."
Prerequisite: None.

MCOM 1300. Mass Communication. 3 Hours.

MCOM 1307. Introduction to Digital Social Media. 3 Hours.
Students explore digital communication campaigns, trends, and practices, and how they are currently used on social and emerging media platforms. Students evaluate message strategies and interpret data analytics to determine levels of audience engagement, as well as short- and long-term effects.

MCOM 1330. Media, Culture and Society. 3 Hours. [TCCN: COMM 1335]
This course will survey the history and theory of mass media in American society with an emphasis on issues in broadcast television, cable television, and print journalism. Topics addressed include the impact of the printing press; evolution of print media, telegraph, film camera, and wireless technologies; structure of contemporary media industries; influence of advertisers, regulatory agencies, and ratings services; production, distribution, and syndication systems; social influence and personal use of mass media content.

MCOM 1332. Writing For Mass Media. 3 Hours. [TCCN: COMM 2311]
Designed to introduce writing for media across a wide spectrum of disciplines, this course will provide hands-on practice in basic writing skills for news, broadcast, the web, and public relations. Emphasis is placed on the enhancement of writing and grammar skills.

MCOM 1371. Audio Production & Performance. 3 Hours. [TCCN: COMM 2303]
This course surveys the mechanics of audio production and the operation of studio equipment. Students study and practice the use of microphone techniques, music, sound effects, and performance. They are introduced to digital audio production and appropriate audio software. Lecture and laboratory projects acquaint students with audio production requirements and responsibilities. Students receive practical hands-on experience with attention to mixing, recording, and editing. Students are expected to produce original content for broadcast on KSHU-FM.

MCOM 2366. Film Appreciation. 3 Hours. [TCCN: COMM 2366]
This course uses the film medium to integrate cinematic history and criticism. Production elements such as lighting, sound and character development, as well as genres, themes and narrative pattern will be analyzed. Emphasis is placed on writing critically about the film. Course Equivalents: MCOM 2351 .

MCOM 2371. TV & Film Production. 3 Hours. [TCCN: COMM 1336]
This course introduces students to the basics of visual image production, focusing on graphic design, creative visualization, video editing, lighting, on-camera performance, and studio producing/directing. Students are expected to produce original content for broadcast on Cable Channel 7.

MCOM 3026. Media Practicum. 1-4 Hours.
Advanced instruction in practice and projects. Students perform assigned work with co-curricular activities (KSHU-FM, Cable Channel 7, The Houstonian, student news, and Priority One PR) in a laboratory environment. Variable Credit (1 to 3). Course Equivalents: MCOM 3226
Prerequisite: Either 12 hours of MCOM, plus score of 80 or higher on Grammar Module and Faculty Approval; or Faculty Approval.

MCOM 4022. Special Topic. 1-3 Hours.
This course will examine special topics/issues in the field of media. Different subject matter will be addressed each semester. This course may be repeated as topics change. Variable Credit (1 to 3). Course Equivalents: MCOM 4382
Prerequisite: Either 18 hours of MCFL or 18 hours of MCJR or 18 hours of MCPA or 18 hours of MCPD; and a score of 80 or higher on Grammar Module.

MCOM 4099. Independent Study. 1-3 Hours.
This course provides an opportunity to conduct supervised investigation in an area of special interest. This course is designed specifically for advanced students who are capable of independent research and/or creative activity. Variable Credit (1 to 3). Course Equivalents: MCOM 4399
Prerequisite: Either 18 hours of MCFL or 18 hours of MCJR or 18 hours of MCPA or 18 hours of MCPD and Permission of Dept.

MCOM 4371. Mass Media Law And Ethics. 3 Hours.
This course will examine legal and ethical concepts as they apply to broadcast and cable television, radio, print media, and Internet-based publishing. It will focus on the evolution of the American legal system with specific attention to state statutes, regulatory agencies, ethical issues, and precedent-setting cases as they relate to free speech, open records, privacy, libel, copyright, and obscenity laws.
Prerequisite: Either 18 hours of MCFL, or 18 hours of MCPA, or 18 hours of MCPD, or 18 hours of MCJR and a score of 80 or higher on Grammar Module.

MCOM 4393. Global Media. 3 Hours.
This course studies world media systems in a variety of countries. Emphasis is placed on how history, politics, government, culture, and other social relations influence international media systems, international development projects, and the global flow of information.
Prerequisite: Either 18 hours of MCFL, or 18 hours of MCPD, or 18 hours of MCPA, or 18 hours of MCJR plus, a score of 80 or higher on Grammar Module.

MCOM 4395. Professional Capstone in Film & Media. 3 Hours.
Students explore paths to employment in the film and media industries including building a professional portfolio, creating a social media presence, preparing for and conducting themselves during professional interviews, handling rejection and exploring nontraditional routes to successful careers in film and media industries.
Prerequisite: Senior standing.

MCOM 4398. Professional Internship. 3 Hours.
On-the-job application of skills and knowledge learned in the classroom for students who have completed their sophomore year, completed appropriate courses, and achieved an acceptable GPA. Internships may be with print media, electronic media, agencies, institutions, businesses, non-profit groups, or government agencies. MCOM and AGCO majors only.
Prerequisite: Either 18 hours of MCFL, or 18 hours of MCPD, or 18 hours of MCPA, and a score of 80 or higher on the Grammar Module.

Mass Communication: Production (MCPD)

MCPD 3370. Media Programming. 3 Hours.
Students in this course analyze programming techniques and strategies for broadcast and cable television, radio, and the internet. Special focus is given to exploration of emerging trends, including multiplatform strategies, new and emerging media, wireless media, and pay-per-view structures. Students consider how programs are selected or rejected, arranged, evaluated, promoted, and regulated. Course Equivalents: MCOM 3370
Prerequisite: MCOM 1332, MCOM 1371, and MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCPD 3373. Multi-Cam Studio Production I. 3 Hours.
This course covers fundamentals of video production in a studio environment, including pre-production, in-studio production, and in-studio direction. Students will become familiar with the functions and responsibilities of the production crew, studio environment, and studio equipment. Emphasis is given to multiple camera techniques in studio production. Students are expected to produce original content for broadcast on Cable Channel 7. Course Equivalents: MCOM 3373
Prerequisite: MCOM 1332, MCOM 1371, and MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCPD 3374. Sports Media Production I. 3 Hours.
Students learn the basics of live sports broadcast production. Students learn proper setup and operation of field equipment, roles and responsibilities necessary for a live production, troubleshooting equipment in the field, and working with broadcast crews and sports organizations. The class may include lectures on broadcast policies and politics along with hands-on field experience. Course Equivalents: MCPD 2374, MCOM 2374
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCPD 3375. Scriptwriting. 3 Hours.
This course emphasizes the study of style, format, principles, and techniques of writing for radio, TV, and streaming productions. The process of writing fiction and non-fiction will examine the development of the script from research to marketing. Students will learn techniques for researching, developing and writing a variety of short and long form scripts. Course Equivalents: MCOM 3375
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCPD 3376. Field & Studio Audio Recording. 3 Hours.
Students in this course distinguish technical, aesthetic and audio production differences between field and studio environments. Proper techniques for creating and reinforcing high-quality audio in diverse settings is emphasized. Pre-production planning, equipment selection, and post-production editing will be studied. Equivalents: MCOM 3376, MCFL 3376.
Prerequisite: MCOM 1332, MCOM 1371, and a score of 80 or higher on the Grammar Module.

MCPD 3378. Production Management. 3 Hours.
This course emphasizes the study of legal clearances, budgeting, funding, resource management, and scheduling as these activities relate to radio and television production. Course Equivalents: MCOM 3378
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCPD 3379. Multi-Cam Field Production I. 3 Hours.
This course emphasizes the techniques and approaches to multi-camera directing and production. MCPD 3379 will train students in various remote production contexts, including sports, dance, music, and special events coverage. Students are expected to produce original content for broadcast on Cable Channel 7. Course Equivalents: MCOM 3379
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and a score of 80 or higher on the Grammar Module.

MCPD 4373. Advanced Production. 3 Hours.
This course requires students to assume the primary responsibility, under faculty supervision, of creating and producing programming for Cable Channel 7. This course will also develop portfolio material for graduating students. Course Equivalents: MCOM 4373
Prerequisite: MCPD 3373, MCPD 3379, and either MCPD 4377 or MCPD 4378.

MCPD 4374. Sports Media Production II. 3 Hours.
Students learn advanced production techniques for live sports broadcast productions, as well as advanced broadcasting policies, ethics and standards. They learn crew management and organization, pre-production strategies, production techniques, and post-production skills; students will also get extensive field experience in directing live and recorded sports productions for a variety of distribution platforms. Course Equivalents: MCOM 4374
Prerequisite: MCPD 3374.

MCPD 4376. Advanced Audio Production. 3 Hours.
This course presents advanced concepts in audio and radio recording and editing. Students are expected to produce original content for broadcast on KSHU-FM. Course Equivalents: MCOM 3371, MCOM 4376
Prerequisite: MCOM 1371 and 12 additional hours of MCOM, or MCPD, or MCJR, or MCFL.

MCPD 4377. Multi-Cam Studio Production II. 3 Hours.
Students will learn television studio procedures and address studio program preparation as well as presentation as it applies to multi-camera production. Students will produce content for Cable Channel 7 and other digital affiliates.
Prerequisite: MCPD 3373 Course Equivalents: MCOM 3377, MCPD 3377 .

MCPD 4378. Multi-Cam Field Production II. 3 Hours.
In this course students learn methods of multi-camera coverage of events, organizations, activities or people. Students are expected to produce content for Cable Channel 7 and other digital affiliates. Course Equivalents: MCOM 4378
Prerequisite: MCPD 3379.

MCPD 4379. Directing Multicamera Field Productions. 3 Hours.
This course focuses on techniques students need to produce and direct multicamera productions, including pre-production preparation, directing multiple camera operators, creating opening graphics and post-production wrap-up. Students are expected to produce original content for Cable Channel 7 and department digital outlets. Course Equivalents: MCOM 4379
Prerequisite: MCPD 3373, MCPD 3379, and either MCPD 4377 or MCPD 4378.

Mass Communication: Public Relations & Advertising (MCPA)

MCPA 2382. Design for Public Relations and Advertising. 3 Hours. [TCCN: COMM 2330]
This course introduces students to the principles of design applicable to publications created using desktop publishing software and computer technology. Special attention is given to design principles, typography, layout, and production techniques. Course Equivalents: MCOM 2382 .

MCPA 3381. Principles Of Public Relations. 3 Hours.
This course examines principles of public relations, the problem-solving processes to analyze and resolve major problems, and practical applications of these tactics to real world situations. The traits of leadership, crisis management, and ethics will be explored. Course Equivalents: MCOM 3381
Prerequisite: MCOM 1332 and either (MCOM 1330, MCOM 2371, MCPA 2382 and a score of 80 or higher on the Grammar Module) or (9 additional hours of MCOM.

MCPA 3382. Principles of Advertising. 3 Hours.
This course explores the changes in today's world of advertising communication and the implications of these changes to traditional practice. Industry developments such as social media and the impact of globalization are included, as well as the increased focus on consumers and branding in today's advertising strategies. Course Equivalents: MCOM 3382
Prerequisite: MCOM 1332 and either (MCOM 1330, MCOM 2371, MCPA 2382, and a score of 80 or higher on the Grammar Module) or (9 additional hours of MCOM).

MCPA 3383. Writing for Public Relations and Advertising. 3 Hours.
This course examines the process of communicating to persuade and inform. Students learn the techniques of strategic thinking and practice writing for advertising and promotions, news media, and special audience materials, such as newsletters, brochures, and catalogues. Online communications for internal and external audiences will also be explored. Course Equivalents: MCOM 3383
Prerequisite: MCOM 1332 and either (MCOM 1330, MCOM 2371, and a score of 80 or higher on Grammar Module) or (9 additional hours of MCOM).

MCPA 3388. Sales and Marketing. 3 Hours.
This course provides students with an overview of marketing strategies used by mass media companies. MCPA 3388 examines media marketing, market surveys, advertising, content promotion, and public relations as efforts to create and support customer bases and maintain goodwill. Students have the opportunity to create model marketing strategies. Special attention is paid to industry changes and professional ethics. Course Equivalents: MCOM 3388
Prerequisite: MCOM 1332 and either (MCOM 1330, MCOM 2371, and a score of 80 or higher on the Grammar Module) or (9 additional hours of MCOM).

MCPA 4381. Social Marketing for Public Relations and Advertising. 3 Hours.
Students critically examine examples of social change initiatives that target deeply-held beliefs and entrenched personal behaviors. Students develop an understanding of social marketing principles, a proven behavior change discipline, and will learn techniques for conducting social marketing campaigns to improve a social good such as individual health, the environment, or the community. Course Equivalents: MCOM 4381
Prerequisite: Either (MCPA 3381, MCPA 3382, and MCPA 3383 or instructor approval) or (MCOM 2382 or instructor approval).

MCPA 4382. Advanced Writing for Public Relations and Advertising. 3 Hours.
This course emphasizes the strategic, goal-oriented mission of high-quality media writing. Using a multidisciplinary and multimedia approach, students will learn to write successful and strategically for public relations, advertising, sales, marketing, and business communications formats. Course Equivalents: MCOM 3385, MCPA 3385
Prerequisite: Either (MCPA 3383 and 6 additional hours of MCPA) or (MCOM 1332 and 9 additional hours of MCOM).

MCPA 4383. Audience Research & Analysis. 3 Hours.
This course introduces students to the history and application of research methods, both quantitative and qualitative, that are employed in commercial media markets and academic environments to assess media audiences, media content, and media use. Topics addressed include survey methods, content analysis, experimental research, ethnographic and critical research, research ethics, and statistical analysis. Special attention will be devoted to research in print and electronic media. Course Equivalents: MCOM 4383
Prerequisite: Either (MCPA 3383 and 9 additional hours of MCPA or instructor approval) or (MCOM 1332 and 12 additional hours of MCOM).

MCPA 4384. Advanced Design for Public Relations & Advertising. 3 Hours.
This course focuses on higher-level publishing formats and media used in today's persuasive communication environment. This course builds on basic print design and production skills introduced in MCPA 2382. Course Equivalents: MCOM 4384
Prerequisite: Either (MCPA 3381, MCPA 3382, and 6 additional hours of MCPA or instructor approval) or (MCOM 2382 or instructor approval).

MCPA 4385. Social Media for Public Relations and Advertising. 3 Hours.
Students develop a comprehensive understanding of the social media landscape and its impact on public relations and advertising campaign strategies. Students develop a strategic social media campaign plan to solve specific communication problems for a particular client; topics also include key social media terminology, techniques, design plans and implementation strategies. Course Equivalents: MCOM 4385
Prerequisite: Either (MCPA 3381 and MCPA 3383) or (MCOM 3381 or MCOM 3382) or (instructor approval).

MCPA 4390. Campaigns for Public Relations and Advertising. 3 Hours.
This course emphasizes integration of theory, research, and communication techniques for implementing and evaluating public relations campaigns. Focus on creative strategies and media planning, target analysis and buying tactics. Students research, develop, and present an integrated communication plan. Course Equivalents: MCOM 4380, MCOM 4390
Prerequisite: Either (MCPA 3381, MCPA 3382, and MCPA 3383 or instructor approval) or (MCOM 3381, MCOM 3383, and MCOM 4383 or instructor approval).

Mass Communications Emerging Media (MCEM)

MCEM 1125. Intro to Emerging Media Tech – AI and XR. 1 Hour.
Students are introduced to generative artificial intelligence, extended reality and other pivotal technologies shaping media landscapes. The course incorporates hands-on experience in AI content creation and usage, virtual character and environment creation to prepare students for a wide range of careers. Credit: 1.

MCEM 2321. Spotting Future Trends in New Media. 3 Hours.
Students practice recognizing emergence of trends, developing skills to analyze their impact on society and predicting new media innovation needed in the rapidly changing digital landscape. The course covers how innovations in new media developed, cases of successful and unsuccessful trend spotting, and ethical considerations of forecasting the future.

MCEM 3321. Immersive Media Prod Tools & Content Creation. 3 Hours.
Students engage with tools needed to create immersive content that defines today's new media landscape. The course dives into immersive media technologies such as virtual and augmented reality, exploring the intricacies of 360-degree video production and virtual environment creation. Students receive hands-on experience in 360-video production and virtual world building. Credit: 3.
Prerequisite: MCEM 1125 and MCEM 2321.

MCEM 3322. Generative AI Prod Tools & Content Creation. 3 Hours.
Students use generative artificial intelligence (AI) tools and applications in the creation of extended reality (XR) content. The course covers various tools and techniques for generating and manipulating text, images, audio, and other forms of media content. Through hands-on projects and case studies, students use generative AI tools creatively and ethically in media production and storytelling. Credit: 3.
Prerequisite: MCEM 1125 and MCEM 2321.

MCEM 4321. Adv Storytelling with Motion Graphics & Effects. 3 Hours.
Students apply principles of 3D animation and industry techniques to create and render 3D films and media products such as training videos. Students use post-production editing methods to create a variety of visual effects (VFX). Emphasis is on 3D storytelling.
Prerequisite: MCEM 3321 or MCEM 3322.

MCEM 4322. Ethics in Emerging Media. 3 Hours.
Students develop an ethical foundation necessary for understanding how emerging media, such as virtual and augmented reality, artificial general intelligence, and social media are irrevocably reshaping society. Students explore ethical issues related to producing and consuming emerging media. Using theories of ethics derived from a variety of sources, students enhance their critical reasoning skills by engaging with case studies and scenarios developed from real-world ethical dilemmas. Credit: 3.
Prerequisite: MCEM 3321 or MCEM 3322.

MCEM 4351. New Media Platforms. 3 Hours.
This course examines how ideas move from concepts and funding to distribution and profits in the new media frontiers. Students analyze case studies and apply entrepreneurial principles to create delivery models for new media content. Equivalents: MCPD 4351, MCFL 4351, MCOM 4351.
Prerequisite: MCOM 1332 and 12 additional hours of MCPD, or MCFL, or MCJR, or MCOM, or MCPA, or MCEM.

Mathematics (MATH)

MATH 0001. Math Intervention. 0 Hours.
NCBO Math Intervention. By department approval only.

MATH 0331. Developmental Mathematics. 3 Hours.
Students study the fundamental operations involving whole numbers, fractions, decimals and percents, ratio and proportion, interpretation of graphs, geometry, and introductory algebra, including axioms and properties of the real number system, fundamental operations involving algebraic expressions, and first and second degree equations and inequalities in one unknown. Credit in this course may not be applied toward graduation or classification of students by hours completed.

MATH 0333. Developmental Mathematics NCBO. 3 Hours.
Students in this course accelerate through the developmental mathematics sequence at Sam Houston State University in one term using innovative learning techniques and individualized programming. Topics include arithmetic operations, basic algebraic concepts and notation, geometry, and real and complex number systems, as well as study of relations and functions, inequalities, algebraic expressions and equations, with a special emphasis on linear and quadratic expressions and equations. This course is required for students who have not met readiness standards for math. Credit in this course will not be allowed to count toward graduation or computation of grade point average or classification of students by hours completed. (Course does not fulfill University degree requirements.)

MATH 1314. Pre Calculus Algebra. 3 Hours. [TCCN: MATH 1314]
Students engage in a brief review of introductory algebra, variation, elementary theory of equations, functions (including exponential and logarithmic), inequalities, systems of equations, and other related topics.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1316. Plane Trigonometry. 3 Hours. [TCCN: MATH 1316]
Students study coordinate systems, circular functions, solutions of triangles, identities, trigonometric equations, and inverse functions.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1324. Mathematics for Managerial Decision Making. 3 Hours. [TCCN: MATH 1324]
Students engage in a review of introductory algebra, equations, relations, functions, graphs, linear programming, systems of equations and matrices, and mathematics of finance.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1332. College Mathematics. 3 Hours. [TCCN: MATH 1332]
This course is designed to meet the objectives of Component Area 2 of the Core curriculum for non-business and non-science related majors. Topics may include sets, counting principles, probability, logic, linear algebra, linear programming, and mathematics of finance, geometry, and calculus.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1342. Elementary Statistics. 3 Hours. [TCCN: MATH 1342]
Students engage in a survey in elementary statistics in order to acquaint students with the role of statistics in society. Coverage may include graphical descriptive methods, measures of central tendency and variation, the basic concepts of statistical inference, the notion of estimators, confidence intervals, and tests of hypotheses. Course Equivalents: MATH 1369, STAT 1369
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1370. Introduction to Biomedical Statistics. 3 Hours.
This elementary statistics course is designed to foster critical thinking about data in healthcare-related settings. Coverage may include graphical and numerical descriptive methods; measures of central tendency and variation; the basic concepts of statistical inference; the notion of estimators, confidence intervals and tests of hypotheses. Data is analyzed with the help of software currently used in the profession, such as SPSS and/or Minitab.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1384. Introduction to Foundations of Mathematics I. 3 Hours. [TCCN: MATH 1350]
Students study sets, systems of numeration, natural numbers, integers, number theory and rational numbers. Credit in this course is applicable only toward elementary/middle school certification.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1385. Introduction to Foundations of Mathematics II. 3 Hours. [TCCN: MATH 1351]
Students explore basic notions of Euclidean Geometry in two and three dimensions, ratio, proportions, concepts of congruence and similarity, transformational geometry and measurement. Credit in this course is applicable only toward elementary/middle school certification.
Prerequisite: MATH 1384 with a grade of C or better.

MATH 1410. Elementary Functions. 4 Hours. [TCCN: MATH 2412]
Elementary Functions and their applications, including topics from algebra, trigonometry and analytic geometry, are used to assist in the algebraic and graphical description of the following elementary functions: polynomial, rational, exponential, logarithmic, and trigonometric functions.
Prerequisite: C or better in MATH 1314, or a 540 on the new Math SAT, or a 21 on the Math ACT, or a 263 on the Next- Generation Advanced Algebra and Functions ACCUPLACER.

MATH 1420. Calculus I. 4 Hours. [TCCN: MATH 2413]
Students study limits and continuity, the derivative, techniques for differentiation of algebraic, logarithmic, exponential and trigonometric functions, applications of the derivative and anti-differentiation, definite integral, Fundamental Theorem of Calculus.
Prerequisite: C or better in MATH 1410, or an A or B in AP Calculus, or a 660 on the new Math SAT, or a 28 on the Math ACT, or a 276 on the Next-Generation Advanced Algebra and Functions ACCUPLACER.

MATH 1430. Calculus II. 4 Hours. [TCCN: MATH 2414]
Students study the definite integral and its applications, techniques of integration, improper integrals, Taylor's formula and infinite series.
Prerequisite: MATH 1420 with a grade of C or better.

MATH 2384. Functions and Graphs. 3 Hours.
The emphasis of this course is on functions and their multiple representations including linear, polynomial, logarithmic, exponential and logistic functions. This course may be applied only toward middle school teacher certification.
Prerequisite: MATH 1385 with grade of C or better.

MATH 2385. Fundamentals of Calculus. 3 Hours.
Students are introduced to the concepts and applications of calculus. This course may be applied only toward middle school teacher certification. Normally offered in the Fall and Spring.
Prerequisite: C or better in MATH 2384.

MATH 2395. Discrete Mathematics. 3 Hours. [TCCN: MATH 2305]
This is an applied course in discrete mathematical structures. Topics may include sets, logic, mathematical proof, computational complexity, relations, graphs, trees, boolean algebra, number theory, combinatorics, probability, recurrence relations, and finite state machines. This course is designed for computer science majors, so programming applications are emphasized.
Prerequisite: MATH 1420 and COSC 1436 with a grade of C or better.

MATH 2399. Mathematics for Managerial Decision Making. 3 Hours.
Students explore differential and integral calculus with applications in areas such as business and economics.
Prerequisite: MATH 1324 or MATH 1314.

MATH 2440. Calculus III. 4 Hours. [TCCN: MATH 2415]
Students study the calculus functions of several variables and topics in vector calculus including line and surface integrals, Green's Theorem, Divergence Theorem, and Stoke's Theorem.
Prerequisite: MATH 1430 with a grade of C or better.

MATH 3300. Introduction to Mathematics Thought. 3 Hours.
Students are introduced to sets, logic, the axiomatic method and proof. Writing enhanced. Normally offered in the Fall and Spring.
Prerequisite: Grade of C or better in MATH 1430 or consent of instructor.

MATH 3350. Theory of Interest. 3 Hours.
Students derive the mathematical principles behind financial instruments involving interest. Topics may include amount functions, interest rates and yields, force of interest, special annuity types, bonds, yield curves, and interest rate sensitivity. Also included is a discussion of the mathematics of financial derivatives. This course covers the content on which the joint Society of Actuaries/Casualty Actuarial Society Exam FM/2 on mathematical interest theory is based.
Prerequisite: Grade of C or better in Math 1430.

MATH 3363. Euclidean Geometry. 3 Hours.
Students study the modern development of Euclidean geometry and are provided a limited introduction to non-Euclidean geometry. Writing enhanced.
Prerequisite: MATH 3300 or consent of instructor.

MATH 3376. Differential Equations. 3 Hours. [TCCN: MATH 2320]
This course, in conjunction with MATH 4375, is intended to develop a basic competence in areas of mathematics that are used in solving problems from the physical sciences. This first course emphasizes the general solution of ordinary differential equations, including the Laplace transform and infinite series methods.
Prerequisite: Grade of C or better in MATH 2440 or concurrent enrollment.

MATH 3377. Introduction to Linear Algebra and Matrices. 3 Hours. [TCCN: MATH 2318]
Students study solving systems of linear equations, fundamental matrix theory (invertibility theorems, determinants), eigenvectors, and properties of linear transformations. Remaining topics are chosen from: Properties of general vector spaces, inner product spaces, and/or diagonalization of symmetric matrices.
Prerequisite: Grade of C or better in MATH 1420.

MATH 3379. Statistical Methods in Practice. 3 Hours.
Students study the organization and presentation of data, measures of central tendency, dispersion, and position, probability distributions for discrete and continuous random variables, sampling techniques, parameter estimation, and hypothesis testing. Emphasis is given to the use of statistics packages. Normally offered in the Fall, Spring, Summer I. Also offered as STAT 3379. Course Equivalents: STAT 3379
Prerequisite: Three (3) semester hours of college mathematics.

MATH 3380. Historical Perspectives of Mathematics. 3 Hours.
(SH Prior Course ID: MTH 380); This course is designed to present mathematical topics from a historical perspective. The number systems and computational methods of past cultures and civilizations are discussed, along with the development of number theory and trigonometry. Credit in this course is applicable only toward elementary/middle school teacher certification.
Prerequisite: C or better in MATH 1385.

MATH 3381. Introduction to Foundations of Mathematics III. 3 Hours.
Students study topics in proportions, percents, probability, data analysis, algebraic reasoning, and problem solving. Credit in this course is applicable only toward elementary/middle school certification. Normally offered in the Fall, Spring, and Summer.
Prerequisite: C or better in MATH 1385.

MATH 3382. Foundations of Middle School Mathematics. 3 Hours.
Students study relations, functions, coordinate geometry, logic, and history of mathematics. Credit in this course is applicable only toward middle school certification.
Prerequisite: C or better in MATH 2384.

MATH 3383. Geometric Measurement/Transformation. 3 Hours.
Students study measurement in one, two, and three dimensions, the metric system, transformational geometry, congruencies, similarities, geometric constructions, and coordinate systems. This course may be applied only toward middle school certification.
Prerequisite: C or better in MATH 2385.

MATH 3384. Foundations of Mathematics. 3 Hours.
Students are introduced to logic, concepts of proof, proof techniques, induction, and sets. The course may be applied only toward middle school certification. Writing enhanced.
Prerequisite: C or better in MATH 2385 or equivalent.

MATH 3386. Fundamentals of Probability and Statistics. 3 Hours.
Students are introduced to probability, descriptive statistics, and inferential statistics, including regression, confidence intervals, and the construction and interpretation of tables, graphs, and charts. Technology related to the above topics are incorporated into the course. This course may be applied only toward middle school certification.
Prerequisite: C or better in MATH 2385.

MATH 3387. Problem Solving-Middle School Mathematics. 3 Hours.
Students study problem-solving strategies appropriate for middle school or junior high mathematics. The course may be applied only toward middle school certification.
Prerequisite: C or better in Math 2385.

MATH 3394. Numerical Methods. 3 Hours.
Student study interpolation, approximations, solutions of equations, and the solution of both linear and nonlinear systems of equations.
Prerequisite: COSC 1436 and MATH 1430 with a grade of C or higher.

MATH 3396. Operations Research I. 3 Hours.
Students explore techniques for the application of the scientific method to decision making in business and government, which are presented through the formulation and interpretation of mathematical models for various specific real life problems.
Prerequisite: MATH 1430 with a grade of C or higher.

MATH 4090. Independent Study. 1-3 Hours.
This course is designed for advanced students to engage in independent study of an area of interest in mathematics under the close guidance of a faculty mentor. Variable credit (1 to 3).
Prerequisite: Consent of instructor.

MATH 4332. Topology. 3 Hours.
Students explore properties of geometric spaces that are preserved under deformation-stretching or twisting, but not breaking. Topics may include topological spaces, connectedness, compactness, manifolds, cell complexes, knot theory, knot invariants, Euler characteristic, fundamental group, classification of surfaces, and covering spaces.
Prerequisite: C or better in Math 3300.

MATH 4361. Introductory Analysis. 3 Hours.
Students engage in a more thorough treatment of the material traditionally considered in elementary calculus. Topics may include sets, functions, properties of the real number system and sequences. Normally offered in the Fall.
Prerequisite: C or better in MATH 3300 or consent of the instructor.

MATH 4366. Elementary Analysis. 3 Hours.
Students study limits, continuity, differentiation, Riemann integration, infinite series and sequences, and series of functions. Normally offered in the Spring.
Prerequisite: MATH 4361 with a grade of C or better.

MATH 4367. The Evolution of Mathematics. 3 Hours.
Students are introduced to the historical development of fundamental mathematical ideas from antiquity to the present. Writing Enhanced. Normally offered in the Fall.
Prerequisite: Grade of C or better in MATH 1430.

MATH 4368. Introduction to Number Theory. 3 Hours.
Students explore the theory of integers in depth. Topics may include: the division algorithm and Euclidean Algorithm; primes and the Fundamental Theorem of Arithmetic; modular arithmetic; Euler's phi function; the ring of units of an integer; quadratic reciprocity; and arithmetic functions.
Prerequisite: C or Better in Math 3300.

MATH 4369. Foundations of Analysis. 3 Hours.
Students apply advanced concepts in the analysis of functions of real variables, building upon the required undergraduate sequence in analysis for mathematics majors and providing further study for students interested in pursuing graduate work. Topics may include multivariate calculus, normed linear spaces, measure theory, measurable functions, Lebesgue integration, and spaces of integrable functions.
Prerequisite: C or better in MATH 4366, or consent of instructor.

MATH 4370. Special Topics in Mathematics. 3 Hours.
Normally, this course consists of readings and individual research appropriate for the undergraduate level with subject matter for study selected by mutual agreement of student and supervisor. However, special classes may be organized when there is sufficient student interest in a particular project. Writing enhanced. This course may be taken for Academic Distinction Credit. See Academic Distinction Program in this catalog.
Prerequisite: Six (6) semester hours of advanced college math and instructor consent.

MATH 4371. Theory and Applications of Probability and Statistics I. 3 Hours.
Students explore basic concepts and properties of probability, random variables, statistical distributions, measures of central tendency, variance, covariance, correlation, functions of random variables, sampling distributions, and the Central Limit Theorem. Also offered as STAT 4371. Normally offered in the Fall. Course Equivalents: STAT 4371
Prerequisite: MATH 1430.

MATH 4372. Theory and Applications of Probability and Statistics II. 3 Hours.
Topics include multivariate, conditional and marginal distributions, point and interval estimation, theory of estimation, maximum likelihood estimates, hypothesis testing, likelihood ratio tests, contingency analysis, and nonparametric statistics. Also offered as STAT 4372. Normally offered in the Spring.
Prerequisite: MATH 4371.

MATH 4375. Partial Differential Equations. 3 Hours.
Students solve problems involving partial differential equations from the natural sciences. Topics may include derivation of the heat/diffusion and wave equations, the method of separation of variables to solve the heat, wave, and Laplace equations on finite domains, Fourier series, Sturm-Liouville eigenvalue problems, the Fourier transform method to solve equations on infinite domains, the method of characteristics, and D'Alembert's solution of the wave equation.
Prerequisite: C or better in Math 3376.

MATH 4377. Algebraic Structures. 3 Hours.
Student study basic structures of abstract algebra: groups, rings, and fields. Topics may include elementary number theory, equivalence relations, groups, homomorphisms, cosets, Cayley's Theorem, symmetric groups, rings, polynomial rings, quotient fields, principal ideal domains, and Euclidean domains. Writing enhanced.
Prerequisite: C or better in MATH 3300 and MATH 3377.

MATH 4378. Abstract Algebra. 3 Hours.
Students study advanced topics from group theory and ring theory. Other topics may include group actions, the Sylow theorems, modules, fields, field extensions, and an introduction to Galois theory.
Prerequisite: C or better in MATH 4377 and consent of instructor.

MATH 4379. Complex Variables. 3 Hours.
Students explore the foundation of complex variables and analytic functions on the complex plane. Topics may include basic properties of complex-valued functions, such as domain, range, branch cuts, limits, and continuity. These topics are followed by the central property of analyticity and the use of Cauchy's Theorem in evaluating contour integrals.
Prerequisite: C or better in Math 2440.

MATH 4384. Survey of Mathematical Ideas. 3 Hours.
This course is designed to bring together and supplement the technical material of other mathematics courses in the mathematics teacher-education program and relate it to the mathematics curriculum of the secondary school. This course may be applied only toward teacher certification.
Prerequisite: Grade of C or better in MATH 3300; Advanced standing in mathematics.

MATH 4385. Mathematical Problem Solving. 3 Hours.
Students focus on solving mathematical problems, including the use of proof as well as graphical and numerical methods. The course extends and connects concepts from algebra, geometry, and calculus, including functions, graphs, complex numbers and number systems. This course may be applied only toward teacher certification.
Prerequisite: Grade of C or better in MATH 3300; Advanced standing in mathematics.

MATH 4395. Undergraduate Research. 3 Hours.
Students engage in special projects or topics in theoretical or applied mathematics. Each student pursues an approved project of interest guided by a mathematics faculty member. Each student is expected to demonstrate individual initiative in planning and conducting the research program or topic. This course may be taken for Academic Distinction credit.
Prerequisite: C or better in MATH 3300 and department approval.

MATH 4397. Combinatorics. 3 Hours.
Students examine permutations, combinations, Stirling numbers, Bell numbers, Catalan numbers, combinatorial proofs, the principle of inclusion-exclusion, the binomial theorem, integer partitions, recurrence relations, and generating functions. Additional topics may include graph theory, poset theory, matroid theory, computational complexity, Burnside's lemma, Ramsey numbers, and error-correcting codes.
Prerequisite: C or better in Math 3300.

MATH N014. Support for Pre-Calculus Algebra. 2 Hours.
This course is an accelerated introduction to the concepts of relations and functions, inequalities, algebraic expressions, and equations. Particular attention is given to absolute value, polynomial, rational, and radical expressions. Special emphasis will be given to linear and quadratic expressions and equations. Credit in this course may not be applied toward graduation or classification of students by hours completed. Variable Credit (0 to 2). Corequisite: This course must be taken concurrently with MATH 1314. Course Equivalents: MATH 0112
Prerequisite: A score of 310-349 on the TSI Assessment Test.

MATH N024. Support Math for Managerial Decision Making. 2 Hours.
This course is an accelerated introduction to the concepts of relations and functions, inequalities, algebraic expressions, and equations. Particular attention is given to absolute value, polynomial, rational, and radical expressions. Special emphasis will be given to linear and quadratic expressions and equations. Credit in this course may not be applied toward graduation or classification of students by hours completed. Variable Credit (0 to 2). Corequisite: This course must be taken concurrently with MATH 1324. Course Equivalents: MATH 0112
Prerequisite: A score of 310-349 on the TSI Assessment Test.

MATH N032. Support for College Math. 2 Hours.
This course is an accelerated introduction to the concepts of relations and functions, inequalities, algebraic expressions, and equations. Particular attention is given to absolute value, polynomial, rational, and radical expressions. Special emphasis will be given to linear and quadratic expressions and equations. Credit in this course may not be applied toward graduation or classification of students by hours completed. Variable Credit (0 to 2). Corequisite: This course must be taken concurrently with MATH 1332. Course Equivalents: MATH 0112
Prerequisite: A score of 310-349 on the TSI Assessment Test.

MATH N042. Support for Elementary Statistics. 2 Hours.
This course is an accelerated introduction designed to support students enrolled in MATH 1342. Students are expected to acquaint themselves with the role of statistics in society. Topics include graphical descriptive methods, measures of central tendency and variation, basic concepts of statistical inference, notion of estimators, confidence intervals, and tests of hypotheses. Credit in this course will not be applied toward graduation or classification of students by hours completed. Variable Credit (0 to 2). Corequisite: This course must be taken concurrently with MATH 1342. Course Equivalents: MATH 0112, MATH N069
Prerequisite: A score of 310-349 on the TSI Assessment Test.

MATH N084. Support for Intro Foundations of Math I. 2 Hours.
This course is an accelerated introduction designed to support students enrolled in MATH 1384. Students are expected to practice communication skills and participate in hands-on activities, including the use of mathematics manipulatives and technology. Topics will include problem solving, reasoning, communication, connections, and representation. Credit in this course may not be applied toward graduation or classification of students by hours completed. Variable Credit (0 to 2). Corequisite: This course must be taken concurrently with MATH 1384. Course Equivalents: MATH 0112
Prerequisite: A score of 310-349 on the TSI Assessment Test.

McNair (MCNR)

MCNR 4301. Introduction to Research and Graduate Study. 3 Hours.
This course is designed to provide students with a quick introduction to the methods, problems, and terminology of graduate research. Because the course is geared toward advanced undergraduate students and is interdisciplinary, we will only touch the surface of the research process and will provide students with a foundation on which to build during their graduate studies. Through the process of writing a research proposal and presenting preliminary research to the class, students will be exposed to the complex area of research,

Mechanical Engineering Technology (ETME)

ETME 2305. Engineering Analysis Methods. 3 Hours. [TCCN: MATH 2414]
Students learn modeling and analysis of engineering systems that contain mechanical, electrical, thermal, and fluid components. Both steady and dynamic state models involving applications of analysis tools such as integration, differentiation, matrices, and statistics will be introduced.
Prerequisite: ETEC 1010 and MATH 1420.

ETME 3320. Mechatronics. 3 Hours.
Students learn mechatronics design process, fundamentals of microcontrollers, embedded systems programming, actuator control, and sensor interfacing. Students gain hands-on experience in building mechatronics systems with practical applications.
Prerequisite: ETEE 1340 and ETME 2305.

ETME 3376. Engineering Dynamics. 3 Hours.
Students learn engineering mechanics regarding the motion of bodies under the action of forces. Topics may include kinematics, force-momentum formulation for systems of particles and rigid bodies in planar motion, work-energy concepts, virtual displacements and virtual work, Lagrange's equations for systems of particles, linearization of equations of motion, and free and forced vibration in mechanical systems.
Prerequisite: ETEC 3375, MATH 1420, PHYS 1301, and PHYS 1101.

ETME 3378. Applied Fluid Mechanics. 3 Hours.
Students learn principles of fluid mechanics, including both statics and dynamics, and their application to engineering systems. Topics may include properties of fluids, viscosity of fluids, pressure measurement, forces due to static fluid, buoyancy and stability, the Bernoulli equation, Reynolds number, various pipeline systems, selection and application of pumps, and flow measurements.
Prerequisite: ETME 2305 and PHYS 1301 and PHYS 1101.

ETME 4376. Applied Thermodynamics. 3 Hours.
Students learn the fundamentals of gas concepts, gas measuring devices, and calibration of measuring instruments. Topics may include vapor and gas cycles, ideal gas mixtures, reading of psychrometric charts, determining fuel combustion efficiency of a steam generating system, and measuring or analyzing humid air and steam conditions including heat content. Concepts of Rankine cycle as the basis for steam and heat engine operations will also be discussed.
Prerequisite: ETME 2305, PHYS 1301, and PHYS 1101.

ETME 4378. HVAC Systems. 3 Hours.
Students study the concepts of heating, refrigeration, and air conditioning technology and associated systems. Topics may include heat transfer, controls, electric motors, refrigeration and air-conditioning, chilled-water systems, domestic and commercial Heating, Ventilation, and Air Conditioning (HVAC) systems. Hardware and equipment such as condensers, compressors, evaporators, and expansion devices, as well as safety, tools, equipment, and shop practices may also be discussed. Course Equivalents: ETEC 4378
Prerequisite: ETME 3378.

ETME 4380. Applied Finite Element Method Analysis. 3 Hours.
Students learn a numerical analysis technique called the Finite Element Method (FEM) to obtain approximate solutions to complex engineering problems. Topics include linear static, structural, modal, thermal, and contact engineering problems. Selected advanced topics including implementing FEM in engineering design and optimization are discussed.
Prerequisite: ETME 2305 and ETEC 3367.

ETME 4385. Mechanical Design. 3 Hours.
Students learn principles of mechanical components design, theories of failure, fatigue and fracture design criteria, materials and their selection for engineering applications, and design of machine components such as fasteners, springs, and bolts.
Prerequisite: ETDD 4388, ETME 2305, and ETEC 4376.

Middle Level Education (CIME)

CIME 2313. Teaching as a Profession. 3 Hours.
In this course, candidates are introduced to teaching as a profession focusing on the examination of political, social, historical, theoretical, and philosophical issues related to making a commitment to education.

CIME 3327. Integrating Technology in the Middle Grades. 3 Hours.
Candidates in this course learn to plan, organize, deliver, assess, and evaluate instruction for all learners in middle grades, while integrating the effective use of technology at each level of the instructional cycle. In addition, implementation of appropriate media for communication with and among colleagues, mentors, and students is addressed.
Prerequisite: CIME 3374.

CIME 3374. Human Growth & Learning. 3 Hours.
Candidates examine human growth and learning with an emphasis in the middle grades environment. Major theories of the teaching-learning process are studied and human development related to middle level education is emphasized. Required for 4-8 certification.
Prerequisite: Junior status.

CIME 3375. The Middle Level Child. 3 Hours.
This course focuses on effective programs and practices at middle-level schools. Emphasis is placed on a historical perspective and philosophy, components of highly successful programs, and current trends and issues in middle-level education. Field experiences in public schools at appropriate levels included in this course.
Prerequisite: CIME 3374; Admission to Educator Preparation Program and Departmental approval.

CIME 3376. Curriculum and Assessment For Middle Grades. 3 Hours.
This course will prepare teacher candidates to become successful in teaching in the middle grades by using effective models of teaching and learning. Emphasis is placed on assessment strategies that reflect responsive instructional practices. Field experiences in public schools at appropriate levels included in this course.
Prerequisite: CIME 3374; Admission to Educator Preparation Program and Departmental Approval.

CIME 3385. The Middle Grades Classroom. 3 Hours.
This course provides a survey of classroom management and discipline approaches appropriate in a middle grades setting. Candidates will explore multiple components that produce a productive learning environment.
Prerequisite: Junior status.

CIME 4088. Special Topics in Middle Level Education. 1-3 Hours.
This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.

CIME 4089. Independent Study in Middle Level Education. 1-3 Hours.

CIME 4116. Integrating Technology in the Middle Grades II. 1 Hour.
Candidates in this course will learn to plan, organize, deliver, asses, and evaluate instruction for diverse learners in middle schools, while incorporating the effective use of technology at each level of the instructional cycle. It builds upon the knowledge and skills candidates aquired during methods block (in CIME 4227) in relation to using technology in classroom instruction. This course is taken as part of student teaching. For those seeking 4-8 certification only.
Prerequisite: Senior standing and admission to student teaching.

CIME 4227. Integrating Technology in the Middle Grades I. 2 Hours.
Candidates in this course will learn to plan, organize, deliver, assess and evaluate instruction for diverse learners in middle schools, while incorporating the effective use of technology at each level of the instructional cycle. This course, taken with the other middle school methods block courses, focuses on the implementation of technology instruction in the middle level grades. All candidates seeking 4-8 certification must make the connections between technology and instructional practice as they begin working with children of this age group. This course is taken as part of the Middle Level Methods Block for 4-8 certification.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Prepartation Program and Departmental approval.

CIME 4334. Teaching Math in Middle Grades. 3 Hours.
This course emphasizes mathematics lesson planning and the preparation of instructional materials appropriate for mathematics content and skills in middle level grades. This course is taken in semester 1 of Year Long Residency.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Preparation Program and Departmental approval.

CIME 4335. Teaching Science in the Middle Grades. 3 Hours.
This course emphasizes science lesson planning and the preparation of instructional materials appropriate for science content and skills in middle level grades. This course is taken as part of the Middle Level Methods Block for 4-8 Mathematics/Science certification.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Preparation Program and Departmental approval.

CIME 4336. Teaching Social Studies in the Middle Grades. 3 Hours.
This course emphasizes social studies lesson planning and the preparation of instructional materials appropriate for social studies content and skills in middle level grades. This course is taken as part of the Middle Level Methods Block for 4-8 English-Language Arts-Reading/Social Studies certification.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Preparation Program and Departmental approval.

CIME 4337. Integrating Literacy and Social Studies. 3 Hours.
This course focuses on the study of methods used in the teaching of middle level language arts and social studies. Emphasis is placed on basic models, strategies, and skills necessary for teaching language arts and social studies in an integrated curriculum, and the application in middle-level grades.

CIME 4338. Integrating Math And Science. 3 Hours.
This course focuses on the integration of mathematics and science content and pedagogy for middle grades 4-8. Emphasis is placed on a historical perspective and philosophy of mathematics and science integration, problem-based approaches to teaching and learning science and mathematics, planning, teaching, and managing the integration of mathematics and science experiences for the middle school classroom.

CIME 4391. Student Teaching in the Middle Grades. 3 Hours.
The student is assigned to student teach in a middle grade classroom for approximately 14 – 15 weeks. This time is divided among observation, participation, teaching and conference activities in a classroom that spans the certification grades. This course is semester 1 of Year Long Residency.
Prerequisite: Senior status and admission to student teaching.

CIME 4392. Student Teaching in the Middle Grades. 3 Hours.
The student is assigned to student teach in a middle grades classroom for approximately fourteen to fifteen weeks. This time is divided among observation, participation, teaching and conference activities in a classroom that spans the certification grades. This course is in semester 2 of Year Long Residency.
Prerequisite: Senior status and admission to student teaching.

Military Science (MLSC)

MLSC 1101. Applied Leadership Lab I. 1 Hour.
A practical laboratory of applied leadership and skills that is required for each 1000-level Military Science Basic Course. Activities include rappelling, preliminary and advanced rifle marksmanship, first aid, field leadership reaction course and physical conditioning. Three hours per week.

MLSC 1211. Introduction to the United States Army. 2 Hours.
This course develops students who accept the Army as a values-based organization and embrace the scholar-athlete-warrior ethos. The course also familiarizes students with individual roles and responsibilities in support of team efforts and problem solving processes in military and non-military situations. The course introduces and reinforces the importance of effective oral and written communication skills, resilience, and student commitment to learning. Co-requisite: MLSC 1101.

MLSC 1212. Agile and Adaptive Leadership. 2 Hours.
Students learn to recognize and take responsibility for their own personal development through instruction in critical thinking, time management, goal setting, and communication. Students learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. Co-requisite: MLSC 1101.

MLSC 2101. Applied Leadership Lab II. 1 Hour.
A practical laboratory of applied skills and leadership. Activities include rappelling, rifle marksmanship, basic land navigation, and fundamentals of tactics. Three hours per week.

MLSC 2211. Leadership and Decision Making. 2 Hours.
Students learn to apply critical thinking and problem solving skills using Troop Leading Procedures (TLP). Students also identify the importance of diversity and the officer's role in leading change. Upon completion of this course students demonstrate the fundamentals of the Army as a profession. Co-requisite: MLSC 2101.

MLSC 2212. Army Doctrine/Team Development. 2 Hours.
Students learn Army doctrine and team development. The course also reinforces the importance of Army Values, Teamwork, and Warrior Ethos while integrating the student's relationship to the Law of Land Warfare and philosophy of military service. Co-requisite: MLSC 2101.

MLSC 2401. Leader'S Training Course (Ltc). 4 Hours.
An optional four-week leadership intern program conducted during June and July at Fort Knox, Kentucky, consisting of basic leadership and adventure-type training. This course is for the student who is considering enrollment in the ROTC Advanced Course, but who does not have credit for the Basic Course. The Army provides transportation, room, board, and clothing. The student is paid approximately $750.00 for the four-week period and is eligible to compete for a two-year Army ROTC scholarship. No service obligation is incurred. 750.00 for the four-week period and is eligible to compete for a two-year Army ROTC scholarship. No service obligation is incurred.

MLSC 3101. Applied Leadership Lab III/IV. 1 Hour.
A practical application laboratory, which is planned by the MSIV (senior) students, executed by the MSIV (senior) students, and supervised by department staff and faculty. Activities include: safety/first aid, drill and ceremony, land navigation, rappelling, rifle marksmanship, and tactics. This class is required for contracted cadets enrolled in the MLSC 3311, 3312, 4311, or 4312 classes. Three hours per week.

MLSC 3311. Training Management. 3 Hours.
Students enrolled in this course must progress from the Basic Course or Basic Camp at Fort Knox, KY. Cadets entering the Advanced Course contract (commit) to become officers before or during this semester. Cadets will study, practice, and apply the tenets of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. Co-requisite: MLSC 3101.
Prerequisite: Basic Course (MLSC 1211, 1212, 2211, 2212) or Leader's Training Course (MLSC 2401).

MLSC 3312. Applied Leadership. 3 Hours.
This is the second course in the Military Science Advanced Course series and focuses on applied leadership in small unit operations. Students study, practice, and apply the fundamentals of direct level leadership and small unit tactics at the platoon level. Co-requisite: MLSC 3101.
Prerequisite: Basic Course (MLSC 1211, 1212, 2211, & 2212) or Leader's Training Course (MLSC 2401) followed by MLSC3311.

MLSC 3401. National Advanced Leadership Camp (NALC). 4 Hours.
A required four-week course during June and July of practical and theoretical instruction at an Army training center. Normally attended between the junior and senior years with transportation, room and board expenses paid by the Army. Advanced Camp cadets are paid approximately $750 for the four-week period. $750 for the four-week period.

MLSC 4303. Special Topics In Military Science. 3 Hours.
Independent concentrated study on an individual basis on current topics in Military Science. Performance will be based on oral presentation, written tests and research papers. Times to be arranged with PMS.

MLSC 4311. The Army Officer. 3 Hours.
This is the third course in the Military Science Advanced Course series. Students in this course begin their final preparation to assume the role of an Army Officer. Students learn the knowledge, skills, and abilities to plan, resource, and assess training at the small unit level. Students also learn about Army programs, how to counsel and evaluate subordinate performance, values and ethics, career planning, and legal responsibilities. Students actively demonstrate the ability to prepare, execute, and continuously assess the conduct of training at the company grade level. Co-requisite: MLSC 3101.
Prerequisite: MLSC 3211 and MLSC 3212.

MLSC 4312. Company Grade Leadership. 3 Hours.
Students develop knowledge, skills, and abilities required of junior officers pertaining to the Army in Unified Land Operations and Company Grade Officer roles and responsibilities. Successful completion of this course assists in preparing students for basic Officer Leader Course and is a mandatory requirement for commissioning. Co-requisite: MLSC 3101.
Prerequisite: Basic Course (MLSC 1211, 1212, 2211 & 2212) or Leader's Training Course (MLSC 2401) followed by MLSC 3311, 3312, 4311.

Music (MUSI)

MUSI 1101. Class Piano - Non Music Majors. 1 Hour.
Students study basic techniques of piano playing as well as develop musical literacy with respect to the keyboard. Designed for the non-music major. Two hours lecture and practice.
Prerequisite: Non-music major.

MUSI 1115. Keyboard Harmony I. 1 Hour.
Students focus on the practical applications of interpreting simple notated music and basic harmony at the piano. Designed for the Musical Theatre major who has little familiarity with the keyboard.

MUSI 1116. Keyboard Harmony II. 1 Hour.
The course continues the practical application of interpreting simple notated music and basic harmony at the piano. Discussion of improvisation is included. Designed for the Musical Theatre major who has little familiarity with the keyboard.

MUSI 1160. Singer's Diction: English and Italian. 1 Hour. [TCCN: MUSI 1160]
This course is designed to familiarize singers with the pronunciation of each language as sung in choral music, recital literature, and opera.

MUSI 1166. Study Of Woodwinds. 1 Hour.
Students study basic techniques of teaching and playing clarinet, saxophone, oboe, bassoon, and flute. Three hours lecture and practice. NOTE: Woodwind students only take MUSI 1166 or MUSI 1167; Brass, string and percussion players must take BOTH MUSI 1166 and MUSI 1167.
Prerequisite: Woodwind students only take MUSI 1166 or MUSI 1167; Brass, string and percussion players must take BOTH MUSI 1166 and MUSI 1167.

MUSI 1167. Study Of Woodwinds. 1 Hour.
Students engage in a continuation of the study of basic techniques of teaching and playing clarinet, saxophone, oboe, bassoon, and flute. Three hours lecture and practice.

MUSI 1181. Class Piano, Level 1. 1 Hour. [TCCN: MUSI 1181]
Students study the basic techniques of piano playing and develop musical skills with respect to the keyboard. Designed for the music major who has little familiarity with the keyboard. Two hours lecture and practice.

MUSI 1182. Class Piano, Level 2. 1 Hour. [TCCN: MUSI 1182]
Students study basic techniques of piano playing and develop musical skills with respect to the keyboard.
Prerequisite: MUSI 1181 with a C or better; or by placement exam.

MUSI 1222. Theory Of Music I. 2 Hours. [TCCN: MUSI 1311]
Students are provided an intensive drill in the fundamentals of music theory followed by an introduction to tonal music of the Western tradition. After mastering basic concepts involving the visual recognition and written reproduction of key signatures, scales, intervals, rhythm, meter, triads, and seventh chords, students study figured bass, Roman Numeral analysis, and four-voice part writing of diatonic music using triads in all inversions. This course's content is coordinated with that of MUSICIANSHIP I (MUSI 1224).

MUSI 1223. Theory Of Music II. 2 Hours. [TCCN: MUSI 1312]
This course expands the study of the fundamentals of music theory to focus on diatonic elements of the Western tradition. In addition to the continuing focus on four-voice part writing and Roman numeral analysis, students are introduced to non-chord tones and basic studies of counterpoint and phrase structure. This course's content is coordinated with that of MUSICIANSHIP II (MUSI 1225).
Prerequisite: MUSI 1222 with a C or better; MUSI 1224 with a C or better; or by placement exam.

MUSI 1224. Musicianship I. 2 Hours. [TCCN: MUSI 1116]
This course provides intensive drill in identifying and reproducing the fundamental structures of music. The course content, which is coordinated with that of THEORY I (MUSI 1222), is divided into practical skills and aural skills. Practical skills develop students' ability to perform music. They may include activities, such as performing rhythmic patterns and sight-singing solfege patterns and written melodies. Aural skills improve your ability to hear music and interpret what you hear. These may include exercises such as interval identification, chord identification, scale identification, rhythmic dictation, melodic dictation, and harmonic dictation.

MUSI 1225. Musicianship II. 2 Hours. [TCCN: MUSI 1117]
This course provides intensive drill in identifying and reproducing the fundamental structures of music. The course content, which is coordinated with that of THEORY II (MUSI 1223), is divided into practical skills and aural skills. Practical skills develop students' ability to perform music. They may include activities such as performing rhythmic patterns and sight-singing solfege patterns and written melodies. Aural skills improve students" ability to hear music and interpret what is heard. These may include exercises, such as chord identification, rhythmic dictation, melodic dictation, and harmonic dictation.
Prerequisite: MUSI 1222 and MUSI 1224 with grade of C or better; or by placement exam.

MUSI 1226. Practical Theory I. 2 Hours.
Students focus on the fundamentals of music theory and aural skills for the Musical Theatre major. Interactive performance-based methods, such as sight-singing, are utilized as well as improvisation and composition.

MUSI 1227. Practical Theory II. 2 Hours.
This course continues the material presented in MUSI 1226 Practical Theory I. Interactive performance-based methods, such as sight-singing, are utilized as well as improvisation and composition.

MUSI 1301. Introduction To Study Of Music. 3 Hours. [TCCN: MUSI 1301]
Students are provided an intensive study of the fundamentals of music including key signatures, scales, intervals, chords, rhythm, and meter. In addition, musicianship skills are developed and tested by means of active listening, singing, sight-reading, and performance-based activities.
Prerequisite: Not open to music majors.

MUSI 1303. Fundamentals of Guitar. 3 Hours. [TCCN: MUSI 1192]
Basic guitar technique for the beginning student is combined with a study of the fundamentals of music notation. Required for music therapy majors. Required for music therapy majors.
Prerequisite: Not open to music majors.

MUSI 1304. Fundamentals Of Singing. 3 Hours. [TCCN: MUSI 1183]
Students study the physiology of vocal music production and the development of the singing voice with an emphasis on correct breathing, tone placement, vowel formations, stage presence and musical interpretation. Required for Music Therapy majors. Required for Music Therapy majors.
Prerequisite: Not open to students majoring in Music.

MUSI 1306. Music Appreciation. 3 Hours. [TCCN: MUSI 1306]
University Core area V course; Student engage in a general survey of music literature designed for the non-music major. Representative composers and their works are studied through recordings, lectures, reports, and live performances.
Prerequisite: For non-music majors.

MUSI 1310. History of Rock, Jazz, and Popular Music. 3 Hours. [TCCN: MUSI 1310]
University Core area V course; Students survey the history of jazz, rock, and popular music beginning with the common origins in African, European, and late 19th-century southern folk music and continuing through the latest trends and includes discussion of individual musicians as well as stylistic details. Course Equivalents: MUSI 2364
Prerequisite: For non-music majors.

MUSI 1379. Survey of World Music Cultures. 3 Hours.
University Core area IV course; Students engage in a survey of world music focusing on non-Western cultures of the 20th and 21st centuries. Students examine elements of representative music cultures, features of those societies that influence music, and the unique musical and artistic aesthetics of those cultural groups. Students explore the creation and function of music within a community's system of values and beliefs, fostering an appreciation for the human experience across diverse societies.

MUSI 2160. Singer's Diction: German. 1 Hour. [TCCN: MUSI 2160]
This course is designed to familiarize singers with the pronunciation of each language as sung in choral music, recital literature, and opera.
Prerequisite: MUSI 1160.

MUSI 2161. Singer's Diction: French. 1 Hour. [TCCN: MUSI 2161]
This course is designed to familiarize singers with the pronunciation of each language as sung in choral music, recital literature, and opera.
Prerequisite: MUSI 1160.

MUSI 2166. Study Of Brasses. 1 Hour.
Students study basic techniques of teaching and playing trumpet, trombone, French horn, baritone, and tuba. Three hours lecture and practice.

MUSI 2167. Study Of Brasses. 1 Hour.
Students continue the study of the basic techniques of teaching and playing trumpet, trombone, French horn, baritone, and tuba. Three hours lecture and practice.

MUSI 2181. Class Piano, Level 3. 1 Hour. [TCCN: MUSI 2181]
Students study the basic techniques of piano playing as well as further develop musical skills with respect to the keyboard.
Prerequisite: MUSI 1182 with C or better; or by placement exam.

MUSI 2182. Class Piano, Level 4. 1 Hour. [TCCN: MUSI 2182]
Student study basic techniques of piano playing as well as enhance musical skills to provide minimum competencies on keyboard necessary for completion of the music degree.
Prerequisite: MUS 113X with a C or better; or by placement exam.

MUSI 2222. Theory Of Music III. 2 Hours. [TCCN: MUSI 2311]
Students study diatonic Western musical elements to include chromatic conventions, including secondary functions, modal borrowing, Neapolitan and augmented sixth chords as well as are provided with a brief introduction to binary, ternary, and other formal designs expands on the study of phrase structure from THEORY II (MUSI 1223). This course's content is coordinated with that of MUSICIANSHIP III (MUSI 2224).
Prerequisite: MUSI 1223 and MUSI 1225 with a C or better; or by placement exam.

MUSI 2223. Theory Of Music IV. 2 Hours. [TCCN: MUSI 2312]
Students continue the study of the chromatic elements of Western music, followed by an introduction to Twentieth-Century music. Special emphasis is made on the analysis of tonal and post-tonal harmony and structures through score study, composition projects, and class performances.
Prerequisite: MUSI 2222 and MUSI 2224 with a C or better; or by placement exam.

MUSI 2224. Musicianship III. 2 Hours. [TCCN: MUSI 2116]
Students are provided intensive drill in identifying and reproducing the fundamental structures of music. The course content, which is coordinated with that of THEORY III (MUSI 2222), is divided into practical skills and aural skills. Practical skills develop the student's ability to perform music. They include activities, such as performing rhythmic patterns and sight-singing solfege patterns and written melodies. Aural skills improve the student's ability to hear music and interpret what he or she hears. These include exercises, such as chord identification, rhythmic dictation, melodic dictation, and harmonic dictation.
Prerequisite: MUSI 1223 and MUSI 1225 with a grade of C or better; or by placement exam.

MUSI 2226. Conducting I. 2 Hours.
Students are introduced to the basic techniques of conducting choral and instrumental music.
Prerequisite: Sophomore standing; MUSI 1223 Theory II with a C or better.

MUSI 2338. Introduction to Music Therapy. 3 Hours.
Students engage in a survey of the role of music as therapy in educational, psychiatric, medical, and rehabilitative settings.
Prerequisite: Required for Music Therapy majors.

MUSI 2339. Psychology Of Music. 3 Hours.
Students study the effect of music on the mind. Topics may include musical acoustics, music perception, and experimental research in music.

MUSI 2348. Survey of Music Literature. 3 Hours. [TCCN: MUSI 1308]
University Core area V course. Students study the fundamentals of music terminology, standard instrumental and vocal forms, and representative composers and compositions from secular and sacred music of most eras.
Prerequisite: MUSI 1222 and MUSI 1224 required for music majors and minors only; or instructor permission for non-majors.

MUSI 2362. Advanced Guitar. 3 Hours.
Students engage in the continuation of fundamentals of guitar with guitar techniques for advanced students combined with study of fundamentals of music notation.

MUSI 3110. Study Of Percussion. 1 Hour.
Students study the basic techniques of teaching and playing all percussion instruments. Three hours lecture and practice.

MUSI 3111. Vocal Techniques for Instrumentalists. 1 Hour.
Students study the basic techniques of teaching vocal music specifically for instrumentalists in the Music Education track. Three hours lecture and practice.

MUSI 3112. Instrumental Techniques for Vocalists. 1 Hour.
Students study the basic techniques of teaching woodwind, brass, string and percussion instruments specifically for vocalists in the Music Education track. Three hours lecture and practice. NOTE: vocalists are not required to take additional instrumental techniques courses.

MUSI 3117. Practicum In Music Therapy I. 1 Hour.
Students engage in a supervised pre-internship clinical experience in community settings. MUSI 3365 must be taken concurrently. Instructor approval required.
Prerequisite: Admission to the Music Therapy program.

MUSI 3118. Practicum In Music Therapy II. 1 Hour.
Students engage in a supervised pre-internship clinical experience in community settings. MUSI 3366 must be taken concurrently. Instructor approval required.
Prerequisite: MUSI 3117.

MUSI 3166. Study Of Strings. 1 Hour.
Students study the basic techniques of teaching and playing violin, viola, violoncello, and string bass. Three hours lecture and practice.

MUSI 3167. Study Of Strings. 1 Hour.
Students engage in a continuation of the study of the basic techniques of teaching and playing violin, viola, violoncello, and string bass. Three hours lecture and practice.

MUSI 3190. Jazz Keyboard Skills. 1 Hour.
Students engage in an in-depth study of standard jazz harmonies with an emphasis on developing the student's ability to perform jazz progressions at the keyboard.
Prerequisite: MUSI 1182 or instructor approval.

MUSI 3336. Instrumental Skills for the Musical Therapy Setting. 3 Hours.
Students study instrumental skills, as applied in the music therapy setting utilizing guitar, dulcimer, keyboard, percussion, and other instruments. Research findings in the music therapy literature are used in structuring therapeutic interventions for specific music therapy populations. Music therapy majors only.
Prerequisite: MUSI 1303, MUSI 2338, MUSI 1181, and MUSI 1182.

MUSI 3337. Instrumental Skills for the Musical Therapy Setting II. 3 Hours.
Students study instrumental skills applied in the music therapy setting, with emphasis on clinical improvisation, song writing, and popular music styles.
Prerequisite: MUSI 2181, MUSI 1303, music therapy major or music major/minor, or instructor permission.

MUSI 3362. Orchestration And Analysis. 3 Hours.
Students study basic techniques of instrumentation, including ranges, transpositions, and characteristics of band and orchestral instruments with practical application in the form of projects for various instrumental combinations.
Prerequisite: MUSI 2222 with a C or better.

MUSI 3363. Structure And Analysis. 3 Hours.
Students explore formal Western musical structures from the common practice period, including classroom discussions, daily/weekly assignments, and one large individual analysis project.
Prerequisite: MUSI 2223 with a C or better.

MUSI 3364. Improvisation. 3 Hours.
Students explore basic techniques and skills used in improvisation including standard chord changes, song structures and advanced scales and arpeggios.
Prerequisite: MUSI 2223 with a C or better is required for music majors only; or instructor permission for non-majors.

MUSI 3365. Observation and Measurement in Music Therapy. 3 Hours.
Students study the current assessment and evaluation procedures used in music therapy and the application of observational recording techniques in educational, social, and therapeutic settings. MUS 310X MUSI 3117 must be taken concurrently.
Prerequisite: Admission to music therapy program.

MUSI 3366. Music Therapy Techniques I. 3 Hours.
Students examine music therapy techniques used in the special education setting and current legislation related to education of students with disabilities and music/music therapy to be provided. MUSI 3118 must be taken concurrently.
Prerequisite: MUSI 3365.

MUSI 3367. Studies In Music For Children. 3 Hours.
Students are introduced to Kodaly philosophy and materials, Orff techniques and instruments, folk song analysis, solfege, Dalcorze concepts, and methods of other pedagogues in the field of elementary music. Several types of curricula for grades K-6 are presented.
Prerequisite: MUSI 1223.

MUSI 3372. Advanced Orchestration. 3 Hours.
Students exam orchestration styles of past and present composers, culminating in a final orchestration project and performance.
Prerequisite: MUSI 3362 Orchestration and Analysis, junior standing or permission of the instructor.

MUSI 3376. Music History: Antique through Baroque. 3 Hours.
Students are provided a chronological perspective of the development of Western music from ancient times to 1750, including representative composers, works, and genres as well as significant concepts and issues.
Prerequisite: MUSI 2348 with C grade or better; junior standing or instructor permission.

MUSI 3377. Music History: Classic to Present. 3 Hours.
Students are provided a chronological perspective of the changes in Western music beginning in 1750 and extending up to the present, including representative composers, works, and genres as well as significant concepts and issues.
Prerequisite: MUSI 2348 with C grade or better; junior standing or consent of instructor.

MUSI 3382. Survey Of Keyboard Literature. 3 Hours.
Students examine the standard piano repertoire from the Baroque era to the 20th Century. Piano majors are required to study, discuss, and perform music from the standard repertoire.

MUSI 3383. Advanced Keyboard Literature. 3 Hours.
Students continue the study begun in MUSI 3382 by delving into greater detail, which includes an introduction of methods for research in keyboard literature.
Prerequisite: Junior standing or permission of instructor.

MUSI 4068. Independent Study. 1-3 Hours.
A course in which the undergraduate student may pursue advanced specialized study under faculty supervision in the areas of composition, music literature, analysis, and research. May be repeated for hours. (This course may be taken for Academic Distinction Hours. See Academic Distinction Program in this catalog.) Variable Credit (1-3).

MUSI 4069. Special Topics. 3 Hours.
Courses offered on varied topics that are delivered in classroom format. Designed by faculty covering subject matter not currently offered in the curriculum.

MUSI 4110. Practicum In Music Therapy III. 1 Hour.
Students engage in a supervised pre-internship clinical experience in community settings. MUSI 4395 must be taken concurrently.
Prerequisite: MUSI 3117.

MUSI 4111. Practicum In Music Therapy IV. 1 Hour.
Students engage in a supervised pre-internship experience in community settings. MUSI 4396 must be taken concurrently.
Prerequisite: MUSI 3117.

MUSI 4117. Recital. 1 Hour.
Students present a public solo performance reflecting the work of one full semester of preparation at the upper division level under supervision of the applied music faculty. The student must be concurrently enrolled for applied music instruction and must have his/her program approved by his/her professor. A Recital Hearing must be passed at least two weeks prior to the scheduled performance.

MUSI 4224. Conducting II. 2 Hours.
Students study and apply advanced conducting technique as applied to instrumental and choral ensembles with emphasis on the development of analytical and interpretative skills. Three hours lecture.
Prerequisite: MUSI 2226; MUSI 2222 and MUSI 2224 with a C or better; or consent of instructor.

MUSI 4322. Keyboard Pedagogy I. 3 Hours.
Students focus on private/applied pedagogy, including the study, research, observation and application of various methodologies.
Prerequisite: Junior standing or permission of instructor.

MUSI 4340. Nonprofit Arts Administration. 3 Hours.
Students engage in a practical and in-depth study of financial, marketing, governance, and structures of nonprofit arts organizations.
Prerequisite: MUSI 2238 and 15 completed semester hours.

MUSI 4341. Music Industry. 3 Hours.
Students are presented an overview of the industry established to sell music as a commodity. Students examine the working relationship between the various entities that produce, market and sell music. Topics may include recording, career development, internet issues, publishing, artist management, and concert promotion.
Prerequisite: Completion of 15 semester hours.

MUSI 4361. Techniques for Wind and String Instruments. 3 Hours.
Students study the literature, methods, and teaching techniques of wind and string instruments. Performance majors may take this course by conference.

MUSI 4362. Vocal Pedagogy & Techniques. 3 Hours.
Students are introduced to the teaching of voice, in both the private and group settings. Students survey different schools of approach and study of the physiology of singing.
Prerequisite: Junior standing.

MUSI 4365. Counterpoint And Analysis. 3 Hours.
Students engage in a focused study of some of the forms and highly contrapuntal works of J.S. Bach with an emphasis on creative projects. The understanding of the contrapuntal devices examined in this course enhance the student's understanding of polyphony in Western music from all periods.
Prerequisite: MUSI 2223 with a C or better.

MUSI 4373. Electronic Music. 3 Hours.
Students are provided an understanding of the relationships between theory and composition. This may include original and imitative work in composition, experience with acoustic and electronic media and a basic understanding of the relationships among musical structures.
Prerequisite: MUSI 2223 with a C or better is required for music majors only; or permission of instructor for non-majors.

MUSI 4374. 20th Century Musical Styles. 3 Hours.
Students explore the trends, techniques, and the various styles of musical composition in the twentieth century, beginning with Impressionism, and studied both conceptually and aurally. Concepts are applied to exercises in composition.
Prerequisite: MUSI 2223 with a C or better.

MUSI 4375. Film Scoring. 3 Hours.
Students study traditional and computer based film scoring techniques as well as orchestration skills required for non-traditional instruments.
Prerequisite: MUSI 3362, junior standing or permission of instructor.

MUSI 4380. Opera Literature. 3 Hours.
Students critically examine the repertoire, performance practice, and historical perspectives of opera from the Baroque era to the present. Students evaluate and analyze differences among national trends in operatic literature. Course Equivalents: MUSI 3380
Prerequisite: MUSI 2348 with a C or better; Junior Standing or permission of instructor.

MUSI 4381. Song History and Literature. 3 Hours.
Students critically examine the repertoire, performance practice, and historical perspectives of classical art song from its initial creation to the present day. Differences among national styles and time periods will be assessed. Course Equivalents: MUSI 3381
Prerequisite: MUSI 2348; Junior Standing or permission of instructor.

MUSI 4384. Advanced Keyboard Sightreading. 3 Hours.
Students gain understanding in the multi-faceted aspects that sight-reading entails and are taught the ability to isolate these aspects. Exercises improve the individual's ability to sight-read.
Prerequisite: Junior standing or permission of instructor.

MUSI 4385. Advanced Keyboard Harmony. 3 Hours.
Piano majors and concentrates experience a broader keyboard harmony training, encounter new musical challenges and reach new heights of music making, training as artistic collaborators and soloists.
Prerequisite: Junior standing or permission of instructor.

MUSI 4395. Music Therapy Techniques II. 3 Hours.
Students study music therapy procedures used with adults in psychiatric and aging adult settings and an examine issues concerning the use of music therapy within these populations. MUSI 4110 must be taken concurrently. MUSI 4110 must be taken concurrently.
Prerequisite: MUSI 3365.

MUSI 4396. Music Therapy Techniques III. 3 Hours.
Students engage in a seminar presentation of contemporary issues in the field of music therapy. MUSI 4111 must be taken concurrently. MUSI 4111 must be taken concurrently.
Prerequisite: MUSI 3365.

MUSI 4397. Internship In Music Therapy. 3 Hours.
First three-month period of supervised clinical experience at site approved by the American Music Therapy Association (AMTA).
Prerequisite: Completion of all coursework.

MUSI 4398. Internship In Music Therapy. 3 Hours.
Second three-month period of supervised clinical experience.
Prerequisite: Completion of all coursework.

Music Ensemble (MUEN)

MUEN 1110. Keyboard Skills and Collaborative Techniques. 1 Hour.
(SH Prior Course ID: ENS 110); Students are provided the training necessary for pianists to work as collaborators with vocalists and instrumentalists. Emphasis is placed on efficient learning techniques, culminating in a live performance.

MUEN 1111. Choral Ensemble. 1 Hour.
(SH Prior Course ID: ENS 111); Students are provided excellent training in choral singing and experience in rehearsal techniques, understanding of choral repertoire and training in performance practices. The course deals with proper tone production, phrasing and musical performance.

MUEN 1115. Jazz Band. 1 Hour.
(SH Prior Course ID: ENS 115); Students focus on the musical and technical aspects of performing with a jazz ensemble. The course includes rehearsals and at least two live performances per semester.

MUEN 1116. Band. 1 Hour.
(SH Prior Course ID: ENS 116); The course is for students who have performed in marching bands in high school and want to continue that experience at the university level. Students perform intricate marching drills and play stunning, powerful music specifically writing for the BearKat Marching Band. The Band performs for football games and other major events.

MUEN 1117. Orchestra. 1 Hour.
(SH Prior Course ID: ENS 117); This course is a performance based experience for students playing string, woodwind, brass or percussion instruments. The course emphasizes music of the major periods of music written for the symphony orchestra.

MUEN 1118. Chamber Music. 1 Hour.
(SH Prior Course ID: ENS 118); Students develop and refine rehearsal skills, ensemble techniques, listening and interpretive skills through the preparation of chamber music. Student chamber groups work with a coach on a weekly basis and participate in a live performance.

MUEN 1119. Opera Workshop. 1 Hour.
(SH Prior Course ID: ENS 119); Students examine the technical and practical applications of participating and performing in an opera production. The main focus is on developing proper vocal technique and using proper vocal production skills to perform areas and scenes from operas.

MUEN 2116. Wind Ensemble. 1 Hour.
(SH Prior Course ID: ENS 216); This course is for advanced woodwind, brass and percussion player. The music is demanding and exciting. The ensemble plays a wide variety of music for the wind ensemble.

MUEN 2159. Production Workshop. 1 Hour.
(SH Prior Course ID: ENS 219); Students focus on production values (lighting, staging, costumes, make up) associated with producing concerts, recitals, shows and special events.

MUEN 3110. Keyboard Skills & Collaboration Technique. 1 Hour.
(SH Prior Course ID: ENS 310); This course offers training and experience for skilled piano players who need to learn the art of accompanying in the chamber music setting.

MUEN 3111. Choral Ensemble. 1 Hour.
(SH Prior Course ID: ENS 311); Students are provided excellent training in choral singing and experience in rehearsal techniques, understanding of choral repertoire, and training in performance practices. The course deals with proper tone production, phrasing, and musical performance.

MUEN 3112. Musical Theatre Ensemble. 1 Hour.
(Prior SH course id: ENS 312); Students focus on the musical and technical aspects of performing in a Broadway/Musical Theatre chorus. Score study is addressed. The course includes rehearsals and two live performances each semester.

MUEN 3115. Jazz Band. 1 Hour.
(SH Prior Course ID: ENS 315); Students focus on the musical and technical aspects of performing with a jazz ensemble. The course includes rehearsals and at least two live performances per semester.

MUEN 3116. Band. 1 Hour.
(SH Prior Course ID: ENS 316); The course is for students who have performed in marching bands in high school and want to continue that experience at the university level. Students perform intricate marching drills and play stunning, powerful music specifically writing for the BearKat Marching Band. The Band performs for football games and other major events.

MUEN 3117. Orchestra. 1 Hour.
(SH Prior Course ID: ENS 317); This course is a performance based experience for students playing string, woodwind, brass or percussion instruments. The course emphasizes music of the major periods of music written for the symphony orchestra.

MUEN 3118. Chamber Music. 1 Hour.
(SH Prior Course ID: ENS 318); Students develop and refine rehearsal skills, ensemble techniques, listening and interpretive skills through the preparation of chamber music. Student chamber groups work with a coach on a weekly basis and participate in a live performance.
Prerequisite: Junior standing or permission of the instructor.

MUEN 3119. Opera Workshop. 1 Hour.
(SH Prior Course ID: ENS 319); Students examine the technical and practical applications of participating and performing in an opera production. The course includes rehearsals and a live performance of opera scenes.
Prerequisite: Junior standing or permission of instructor.

MUEN 4116. Wind Ensemble. 1 Hour.
(SH Prior Course ID: ENS 416); This course is for advanced woodwind, brass and percussion player. The music is demanding and exciting. The ensemble plays a wide variety of music for the wind ensemble.

Musical Theatre Voice (MTVO)

MTVO 1201. Musical Theatre Applied Voice. 2 Hours.
This course consists of private one-on-one study of vocal techniques that are appropriate to healthy vocal performance. Study focuses on performance of musical theatre styles and repertoire. Course Equivalents: MTVO 1101 .

MTVO 3100. Platform Performances. 1 Hour.
This course has a performance based focus for junior and senior musical theatre majors. Students create performances of scenes from the musical theatre canon. Corequisite: MTVO 3201
Prerequisite: MTVO 1201 and junior or senior musical theatre major .

MTVO 3201. Musical Theatre Applied Voice. 2 Hours.
This course consists of private one-on-one study of vocal techniques that are appropriate to healthy vocal performance. Study focuses on performance of musical theatre styles and repertoire. Course Equivalents: MTVO 3301 .

Newton Gresham Library (NGLI)

NGLI 1101. Research in the Digital Age. 1 Hour.
New researchers are often overwhelmed by the sheer amount of information available on the Internet. This course teaches students to efficiently search online academic, popular, and professional resources and evaluate their credibility. The life-long skills learned from this class will prepare students to be more effective researchers.

Nursing (NURS)

NURS 2132. Foundations & Health Assessment Lab. 1 Hour.
Students review concepts and principles underlying the assessment of the health status of individuals across the lifespan and are introduced to a patient-centered approach for providing safe, effective nursing care in the clinical setting. Emphasis is placed on enhancing communication and assessment skills, which include improving interviewing techniques, health history taking, and the ability to review physiological systems and psychosocial findings, all while cultivating a trusting nurse-client relationship.
Prerequisite: Admission to the Nursing Program.

NURS 2133. Experiential Learning 1 - Concept Application. 1 Hour.
Students connect classroom theory with experiential learning and focus on the development of critical thinking skills, clinical judgment, ethical decision-making abilities, and overall competence in a safe and controlled simulated environment. Through a combination of hands-on practice, simulated scenarios, reflective debriefing, and collaborative learning, students will gain foundational knowledge and skills necessary for successful clinical practice. An emphasis will be placed on the nursing process, communication, safety, and patient assessment.
Prerequisite: Admission to the Nursing Program.

NURS 2231. Recitation and Wellness for Student Success 1. 2 Hours.
Students deepen their understanding of nursing concepts from the Sophomore 1 semester and apply them in real-world healthcare scenarios through interactive recitation sessions focused on competency. Students will also learn to promote individual academic success, clinical success, resilience, and well-being.
Prerequisite: Admission to the Nursing Program.

NURS 2321. Applied Pathophysiology/Pharmacology 1. 3 Hours.
Students are introduced to the foundation of pathophysiology and fundamental principles of pharmacological alterations in major regulatory mechanisms of the body. Special consideration is given to the nursing role in developing a comprehensive approach to the clinical application of pharmacologic concepts and principles to professional nursing practice. Students are provided a foundation for understanding general nursing practice, various diagnostic procedures, and basic drug classifications.
Prerequisite: Admission to the Nursing Program.

NURS 2531. Foundations of Nursing. 5 Hours.
Students are introduced to the scope of human needs, utilization of the nursing process as a systematic approach to meeting those needs, and the role of the professional nurse in assisting individuals toward optimal health. Clinical settings are used to apply fundamental concepts, principles of nursing, and communication skills to clinical practice in diverse adult populations.
Prerequisite: Admission to the Nursing Program.

NURS 3134. Experiential Learning 2 - Concept Application. 1 Hour.
Building on the foundational knowledge acquired, students bridge classroom theory with experiential learning and further develop critical thinking skills, clinical and ethical decision-making abilities, and overall competence in a safe and controlled simulated environment. Through a combination of hands-on practice, simulated scenarios, reflective debriefing, and collaborative learning, students will build on the foundational courses to gain the knowledge and skills necessary that will be built on in future courses. Emphasis will be placed on the Clinical Judgement Model within the nursing process, therapeutic communication, safety and prioritization.
Prerequisite: Admission to the Nursing Program.

NURS 3135. Experiential Learning 3 - Concept Application. 1 Hour.
Building on the knowledge previously acquired, students bridge classroom theory with experiential learning and develop critical thinking skills, clinical and ethical decision-making abilities, and overall competence in a safe and controlled simulated environment. Through a combination of hands-on practice, simulated scenarios, reflective debriefing, and collaborative learning, students gain the knowledge and skills necessary for competent clinical practice. Students examine evidence-based practice in the clinical setting and emphasis will be placed on using the Clinical Judgment Model within the nursing process, interprofessional communication, safety, delegation, and prioritization across diverse healthcare settings.
Prerequisite: Admission to the Nursing Program.

NURS 3141. Applied Pathophysiology/Pharmacology 3. 1 Hour.
Students enhance sequential critical thinking, prioritization, and effective decision-making for safe and effective patient care using the principles of pharmacology and pathophysiology as applied to clinical nursing practice. Special consideration is given to the nursing role in developing a comprehensive approach to the clinical application of pharmacologic concepts and principles to professional nursing practice.
Prerequisite: Admission to the Nursing Program.

NURS 3231. Applied Pathophysiology/Pharmacology 2. 2 Hours.
Students focus on foundations of pathophysiological and fundamental principles of pharmacological alterations in major regulatory mechanisms of the body. Special consideration of the nursing role in developing a comprehensive approach to the clinical application of pharmacologic concepts and principles to professional nursing practice is highlighted. Students are provided a foundation for understanding general nursing practice, various diagnostic procedures, basic drug classifications, and nursing implications relative to the use of drug therapy and selected therapeutic regimens. Students also develop critical thinking skills and apply effective decision-making for safe and effective care.
Prerequisite: Admission to the Nursing Program.

NURS 3232. Recitation and Wellness for Student Success 2. 2 Hours.
Students deepen their understanding of nursing concepts from the Junior 1 semester and apply them in real-world healthcare scenarios through interactive recitation sessions focused on competency. Students will also learn to promote individual academic success, clinical success, resilience, and well-being.
Prerequisite: Admission to the Nursing Program.

NURS 3233. Recitation and Wellness for Student Success 3. 2 Hours.
Students deepen their understanding of nursing concepts from the Junior 2 semester and apply them in real-world healthcare scenarios through interactive recitation sessions focused on competency. Students will also learn to promote individual academic success, clinical success, resilience, and well-being.
Prerequisite: Admission to the Nursing Program.

NURS 3263. Population Health Nursing. 2 Hours.
Students learn the skills to conduct community assessments by using the nursing process to address primary, secondary, and tertiary prevention within population health. The multiple determinants of health at the local, state, national, and global levels will be addressed. The role of the public health and community nurse, and the importance of interprofessional collaboration in various community settings will be emphasized to ensure the provision of safe nursing care while using clinical judgement. Students will participate in interprofessional learning opportunities in the course. NURS 3263 is a designated Academic Community Engagement course.
Prerequisite: Admission to the Nursing Program.

NURS 3310. Health Assessment. 3 Hours.
Students are presented the concepts and principles underlying assessment of the health status of individuals. An emphasis is placed on interviewing skills, health histories, and the physical and psychosocial findings in the well person, plus the development of communication in the nurse-client relationship and assessment skills. Students implement the nursing process by obtaining health histories, performing physical and psychosocial assessments, establishing a baseline database, and formulating initial nursing plans. Course Equivalents: NURS 3410
Prerequisite: Admission to the Nursing program.

NURS 3320. Pathophysiology for Nursing. 3 Hours.
Students are introduced to pathophysiological alterations in major regulatory mechanisms of the body. Special consideration is given to the clinical application of pathophysiologic concepts and principles in professional nursing practice. A foundation is provided for understanding general nursing practice, various diagnostic procedures, and selected therapeutic regimens. Critical thinking, correct use of related terminology and effective decision-making are incorporated to provide safe care.
Prerequisite: Admission to the Nursing program.

NURS 3321. Pharmacology for Nursing. 3 Hours.
Students are introduced to pharmacological implications and related alterations in major regulatory mechanisms of the body. Special consideration is given to the clinical application of pharmacological concepts and principles in professional nursing practice. A foundation is provided for understanding nursing implications, basic drug classifications, and selected pharmacological therapies. Critical thinking and effective decision-making are incorporated to provide safe care.
Prerequisite: Admission to the Nursing program.

NURS 3340. Older Adult Health Management. 3 Hours.
Students focus on nursing interventions used to promote, maintain, and restore health in older adult clients. Students are provided with opportunities to expand knowledge of the normal aging process; to identify variables that contribute to deviations in health; to discuss how formal and informal resources including evidence-based data contribute to older adults' health status; and to examine the implications of working collaboratively with individuals, families and communities to meet the health care needs of older adults. Course Equivalents: NURS 3040, NURS 3440
Prerequisite: Admission to the Nursing program.

NURS 3342. Behavioral Health Nursing Care. 3 Hours.
Students acquire conceptual understanding and application of evidence-based practice in care delivery for clients with behavioral (mental illness and substance abuse) dysfunction and their families. Students build upon development of critical judgment and thinking skills in patient-centered care through lecture, case studies, and classroom discussions. Emphasis is placed on fostering skills in therapeutic relationship building and communication, and knowledge of psychopharmacology.
Prerequisite: Admission to the Nursing program.

NURS 3351. Nursing Concepts I. 3 Hours.
A variety of formal and informal resources including evidence-based data are used to orient students to the roles that nurses assume and the settings in which nursing practice meets the diverse health needs of clients. Standards of professional nursing practice and nursing theorists are introduced along with the philosophy of the School of Nursing.

NURS 3360. Introduction to Research. 3 Hours.
Students focus on fundamental concepts and processes of nursing research and emphasizes nursing research as a basis for evidence-based practice. Students examine major steps in the research process, formulate research questions relevant to clinical nursing practice, and critique nursing research reports.
Prerequisite: STAT 3379 or MATH 1342 or MATH 1370 or PSYC 3402.

NURS 3370. RN-to-BSN Role Transition. 3 Hours.
This course is designed to meet the needs of a registered nurse (RN) with a 2-year associate's degree or diploma who desires to earn a bachelor of science in nursing (BSN) degree. In this course, students explore the role of the professional nurse as a provider of holistic, culturally sensitive, client-centered care. Other concepts explored include advocacy, evidence-based practice, care quality and safety, interdisciplinary communication and collaboration, genetics and genomics, and informatics. The significance of nursing theory as a basis for professional nursing practice and competency in applying nursing diagnoses is also explored.
Prerequisite: Admission to the Nursing program.

NURS 3521. Medical - Surgical Nursing1. 5 Hours.
Students focus on nursing care using critical thinking and problem-solving strategies to promote, maintain, and restore health in adults. The effects of illness are examined in relation to the individual development stage, culture, and gender. Students are introduced to the nursing process in the medical-surgical care of adults with chronic and/or non-complex illness by utilizing clinical judgment. This course includes a clinical component to allow the student the opportunity to apply theoretical concepts to medical-surgical clinical nursing practice in diverse adult populations.
Prerequisite: Admission to the nursing program.

NURS 3522. Medical - Surgical Nursing 2. 5 Hours.
Students focus on nursing care using critical thinking and problem-solving strategies to promote, maintain, and restore health in adults. The effects of illness are examined in relation to the individual development stage, culture, and gender. Students are introduced to the use of the nursing process in the care of adults with chronic and/or complex illness by utilizing clinical judgment. A clinical component is included to allow the student the opportunity to apply theoretical concepts to clinical practice in diverse adult populations.
Prerequisite: Admission to the Nursing Program.

NURS 3540. Mental Health and Illness. 5 Hours.
Students explore the relevance of psychosocial nursing concepts to all areas of professional practice with a conceptual integration of the nursing process, theories, and research from psychosocial sciences and humanities as these relate to the care of persons with mental disorders. Clinical experience provides an opportunity for application of psychosocial concepts and methods in using the nursing process to promote optimal levels of wellness for individuals, families, and target groups as well as provides students with the opportunity to develop clinical decision-making abilities when providing appropriate and culturally relevant psychiatric/mental health nursing care. Course Equivalents: NURS 3640
Prerequisite: Admission to the Nursing program.

NURS 3620. Adult Health I. 6 Hours.
Students are introduced to the use of the nursing process in the care of adults with chronic or non-complex illness, using a systems approach to discuss the effects of illness on the individual and family and to examine the disruption of growth and development patterns across the lifespan from young adult to senior years, emphasizing the nursing process to assist adults in reaching their optimal level of wellness. The course includes a clinical laboratory to allow the student the opportunity to apply theoretical concepts to clinical practice in diverse adult populations.
Prerequisite: Admission to the Nursing program.

NURS 3631. Nursing Fundamentals. 6 Hours.
Students are provided an introduction to the scope of human needs, use of the nursing process as a systematic approach to meeting those needs, and the role of the professional nurse in assisting individuals toward optimal health. Clinical settings are used in the application of fundamental concepts, principles of nursing, and communication skills that are employed in providing basic client care. Course Equivalents: NURS 3430, NURS 3530 .

NURS 3660. LVN-to-BSN Role Transition. 6 Hours.
This course meets the needs of a licensed vocational nurse (LVN) desiring to earn a bachelor's degree in nursing (BSN) and become a registered nurse (RN). Students explore the role of the professional nurse as a provider of holistic, culturally sensitive, client-centered care. Students apply critical thinking and the nursing process to clients experiencing non-complex common health problems. Other concepts include client advocacy, interdisciplinary collaboration, and professional nursing. Course Equivalents: NURS 3460, NURS 3560
Prerequisite: Admission to the Nursing program.

NURS 4030. Community Nursing. 6 Hours.
Students In this course will synthesize public health concepts within a preventive framework to promote and maintain the health of communities. The historical development and philosophy of public health will be examined, and the role of epidemiology in public health nursing will be discussed. Special focus areas include health promotion and health behaviors of individuals, families, and populations, disaster preparedness and response, cultural competence and nursing care of communities/populations. Social determinants of health affecting individuals, families, and populations and specifically to vulnerable populations will be studied. The use of the nursing process as it applies to populations and an examination and implementation of health literacy concepts will be addressed. This course may offer an optional Academic Community Engagement, interprofessional and/or study abroad component(s). Study abroad is for an additional fee. Variable Credit (1 to 6). Course Equivalents: NURS 4630
Prerequisite: Admission to the Nursing program.

NURS 4060. Leadership and Management. 6 Hours.
Students focus on the knowledge and skills related to the delivery of health services from a nursing management knowledge-base. Students are presented theories, concepts, and models of health care delivery. Students explore creative roles for managing and leading in nursing as well as gain theoretical knowledge and skills to understand organizations, understand leadership theories, and utilize critical thinking in making nursing management decisions. Variable Credit (1 to 6). Course Equivalents: NURS 4660
Prerequisite: Admission to the Nursing program.

NURS 4092. Independent Study Nursing. 1-3 Hours.
Independent Study. Students engage in an individual study in specialized areas of nursing. To be directed and approved by the nursing advisor. Variable credit (1 to 3). Course Equivalents: NURS 4392
Prerequisite: Admission to SHSU nursing program.

NURS 4095. Special Topics in Nursing. 1-3 Hours.
Special Topics. Students engage in a group study in specialized areas of nursing. To be directed and approved by the nursing advisor. This course is designed to be a multi-topic course. Therefore, the student can take the course under various special topics being offered. Variable Credit (1 to 3). Course Equivalents: NURS 4395
Prerequisite: Admission to the Nursing program.

NURS 4137. Experiential Learning 5 - Concept Application. 1 Hour.
Building on the knowledge acquired in previous courses, students bridge classroom theory with experiential learning and aims to in this final comprehensive course to advance critical thinking skills, clinical and ethical decision-making abilities, and overall competence in a safe and controlled simulated environment. Students will immerse themselves in the complexities of critical care nursing and through a combination of hands-on practice, simulated scenarios, reflective debriefing, and collaborative learning. Students will encounter scenarios involving critically ill patients, emergency situations, and complex care management. Students will also learn advanced life support techniques, hemodynamic monitoring, professional communication, and interdisciplinary teamwork essential for success in critical care nursing practice.
Prerequisite: Admission to the Nursing Program.

NURS 4222. Child & Adolescent Nursing. 2 Hours.
Students focus on the effects of illness while exploring developmental, coping, grief, and systems theories in the care of newborn, child, and adolescent patient populations. Students also examine the conceptual impact of family, culture, and diversity on the health promotion and problems of the pediatric population and also integrate evidence-based practice and clinical reasoning through a systematic approach. The student will demonstrate developing nursing skill and knowledge through directed learning experiences. In this Academic Community Engagement (ACE) course, students collaborate with an organization and an interprofessional team as part of their field experience/clinical placement.
Prerequisite: Admission to the Nursing Program.

NURS 4230. Maternal Newborn/Child Nursing Clinical. 2 Hours.
Students describe and distinguish their nursing knowledge, application of nurse theory, demonstrate evidence-based practice, and employ clinical reasoning while delivering competent quality patient-centered care of mothers, newborn, children and their families. There are a total of 90 clinical hours as a part of the course.
Prerequisite: Admission to the Nursing Program.

NURS 4235. Recitation and Wellness for Student Success 4. 2 Hours.
Students deepen their understanding of nursing concepts from the Senior 1 semester, apply them in real-world healthcare scenarios, strengthen their competency and skills in nursing practice, and foster individual academic success, clinical success, resilience, and well-being.
Prerequisite: Admission to the Nursing Program.

NURS 4236. Experiential Learning 4 - Concept Application. 2 Hours.
Building on the knowledge previously acquired, students bridge classroom theory with experiential learning and build critical thinking skills, clinical and ethical decision-making abilities, and overall competence in a safe and controlled simulated environment. Through a combination of hands-on practice, simulated scenarios, reflective debriefing, and collaborative learning, students continue to build on knowledge from previous courses to gain the competencies necessary to safely provide holistic care to individuals and families, with an emphasis on maternal/newborn, family, and pediatric populations across various healthcare settings.
Prerequisite: Admission to the Nursing Program.

NURS 4237. Recitation and Wellness for Student Success 5. 2 Hours.
Through interactive recitation sessions, students prepare for practice, show competency in their understanding of nursing concepts from the Senior 2 semester, apply them in real-world healthcare scenarios, and foster individual academic success, clinical success, resilience, and well-being. Students are provided opportunities to design success strategies that will promote professional development.
Prerequisite: Admission to the Nursing Program.

NURS 4242. Maternal Newborn Nursing & Women's Health. 2 Hours.
Students examine childbearing families and women’s health in normal and high-risk situations and the role of the nurse in meeting health needs of women, families, and their newborns. Students will employ clinical judgment to meet health needs, promote, and provide holistic patient-centered care for women, families, and newborns. In this Academic Community Engagement (ACE) course, students collaborate with an organization, interprofessional team as part of the field experience/clinical placement and explore a variety of ways to interact with different populations.
Prerequisite: Admission to the Nursing Program.

NURS 4250. Nursing Concepts II. 2 Hours.
Students are provided the opportunity to synthesize issues, such as career development, health policy, and workplace advocacy, into their working method. Other issues including information technology, ethics, and cultural awareness (which have been previously introduced) are explored more thoroughly to assist the graduate's entry into practice.
Prerequisite: Admission to the Nursing program.

NURS 4264. Applied Population Health Nursing. 2 Hours.
Students bridge classroom theory with experiential learning to develop critical thinking skills, clinical judgement and ethical decision-making abilities, and overall competence in public health and community health nursing. Through a combination of hands-on practice, simulated scenarios, reflective debriefing, collaborative learning, and interprofessional education, students further develop existing knowledge and skills necessary for successful clinical practice with individuals, families, and communities at the local, state, national, and global level. Emphasis is placed on the nursing process, communication, cultural humility, community assessment, and health education.
Prerequisite: Admission to the Nursing Program.

NURS 4331. Leadership & Transition to Practice. 3 Hours.
Students are introduced to the concepts of leadership and management for application in practice settings. Theories relating to nursing, culture, models of care, culture, evidence-based practice, process change, and concepts of health care delivery are explored and support transition from student to the professional nurse role.
Prerequisite: Admission to the Nursing Program.

NURS 4372. RN-to-BSN Capstone. 3 Hours.
Students integrate the knowledge, theories, and concepts RN-to-BSN learned throughout the program. Students assimilate knowledge from nursing and related disciplines for analysis of a current health issue and the professional nurse's role in impacting change.
Prerequisite: Admission to the Nursing program, NURS 4060, and Department Approval.

NURS 4381. Legal and Ethical Issues in Nursing. 3 Hours.
Students will explore legal and ethical issues related to the nursing profession. Students learn about various theories and tools that can be used to assist them in resolving ethical dilemmas.
Prerequisite: Admission to SHSU nursing program.

NURS 4382. Informatics. 3 Hours.
Students learn to integrate nursing science and computer technology in order to identify, collect, process, and manage information. Course emphasis is placed on health applications that support clinical, administrative, research, and educational decision making as well as enhance the efficacy of nursing processes. Course Equivalents: NURS 4282
Prerequisite: Admission to the Nursing program.

NURS 4383. Rural Health Nursing. 3 Hours.
Students explore the various unique healthcare needs, trends, and issues faced by rural settings. Students have an opportunity to explore possible solutions to healthcare problems as they examine evidence-based data in the literature. Rural nursing theories are applied to standards of professional nursing practice.
Prerequisite: Admission to the Nursing program.

NURS 4384. Nursing Genetics and Genomics. 3 Hours.
Students study health promotion and maintenance for individuals and families within the context of human diversity and the implications for best practices associated with genomic information, including ethics and genetic counseling. Students learn about the genomic determinants of health.
Prerequisite: Admission to the Nursing program.

NURS 4520. Child & Adolescent Nursing. 5 Hours.
Students uses the nursing process to promote, protect, and maintain the health of infants, children, and adolescents, providing students with the knowledge and skills needed to develop the cognitive, psychomotor, and affective skills necessary for therapeutic interventions of these populations. Students examine the biological and psychosocial parameters; legal and ethical dimensions; resources; and cultural influences affecting nursing care strategies for infants, children, and adolescents. Course Equivalents: NURS 4420
Prerequisite: Admission to the Nursing program.

NURS 4540. Women's Health and Maternal Newborn Nursing. 5 Hours.
Students examine childbearing families and women's health in normal and high-risk situations and the role of the nurse in meeting health needs of women, families, and their newborns. Supervised clinical experiences and/or simulation experiences in the application of the nursing process in meeting these health needs are offered and promotes the acquisition of skills in caring for women, families, and newborns during uncomplicated and/or complicated health experiences in a variety of settings. Course Equivalents: NURS 4440
Prerequisite: Admission to the Nursing program.

NURS 4620. Adult Health II. 6 Hours.
Senior students are presented critical thinking and problem-solving strategies for care of adults with acute or complex illness and injuries. The effects of acute illness are examined in relation to the injury as well as in relation to the individual's developmental stage, culture, and gender. Building on the Nursing Care of Adults Health I, a systems approach is used to analyze and intervene in alterations to the health of the individual and family and to help them reach their optimal level of wellness. The course includes clinical laboratory to allow the student the opportunity to integrate theoretical concepts into clinical practice in diverse populations.
Prerequisite: Admission to SHSU nursing program.

NURS 4631. Medical - Surgical Nursing 3 (Critical Care). 6 Hours.
Students focus on nursing care using critical thinking and problem-solving strategies to promote, maintain, and restore health in adults. The effects of illness are examined in relation to the individual development stage, culture, and gender. Students progress in the use of the nursing process in the care of critically-ill adults with acute and/or complex illness(es) by utilizing clinical judgment. This course includes a clinical component to allow the student the opportunity to apply theoretical concepts to clinical practice in diverse adult populations.
Prerequisite: Admission to the Nursing Program.

Oboe (OBOE)

OBOE 1101. Secondary Performances-Oboe. 1 Hour.
Students study techniques and musicality related to oboe in weekly individualized private instruction. Students admitted as an Oboe primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

OBOE 1201. Individual Performances-Oboe. 2 Hours.
The course consists of individualized private instruction on the oboe. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

OBOE 3201. Individual Performances-Oboe. 2 Hours.
The course consists of advanced individualized private instruction on the oboe. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

OBOE 3202. Applied Oboe with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the oboe. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.

Organ (ORGN)

ORGN 1201. Individual Performances-Organ. 2 Hours.
The course consists of individualized private instruction on the organ. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

ORGN 3201. Individual Performances-Organ I. 2 Hours.
The course consists of advanced individualized private instruction on the organ Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore barrier jury.

ORGN 3202. Applied Organ with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the organ. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Percussion (PERC)

PERC 1101. Secondary Performances-Percussion. 1 Hour.
Students study techniques and musicality related to percussion in weekly individualized private instruction. Students admitted as a Percussion primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

PERC 1201. Individual Performances-Percussion. 2 Hours.
The course consists of individualized private instruction in percussion. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

PERC 3201. Individual Performances-Percussion. 2 Hours.
The course consists of advanced individualized private instruction in percussion. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

PERC 3202. Applied Percussion w/ Jr Recital. 2 Hours.
The course consists of advanced individualized private instruction in percussion. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Philosophy (PHIL)

PHIL 1301. Introduction to Philosophy. 3 Hours. [TCCN: PHIL 1301]
Students examine the fields and issues of philosophy as discussed by both classical and modern philosophers. Philosophical problems discussed may include the existence of God, the nature of knowledge and truth, the issue of human free will, and theories of moral judgement. Course Equivalents: PHIL 2361 .

PHIL 2303. Critical Thinking. 3 Hours. [TCCN: PHIL 2303]
Students examine the fundamentals of deductive reasoning, the identification of common fallacies, and an introduction to inductive reasoning. Further, students investigate some of the ways information is distorted, e.g., by advertising and news management. This course is designed to improve students' ability to think critically.

PHIL 2306. Contemporary Moral Issues. 3 Hours. [TCCN: PHIL 2306]
Students study major moral issues in contemporary society. Topics may include abortion, euthanasia, censorship, capital punishment, and other issues that confront today's society.

PHIL 2352. Introduction to Contemporary Logic. 3 Hours.
Students explore the principles of ordered thought and the terminology and rules of symbolic logic. Further, students examine the logic of statements and the logic of predicates, qualifiers, and identity.

PHIL 3364. Ancient & Medieval Philosophy. 3 Hours.
Students survey philosophical thought from the time of the pre-Socratics to about 1500, which may include the thought of Socrates, Plato, Aristotle, the Hellenistic schools, and medieval philosophy through the late scholastic period. Students also explore the artistic, scientific, ethical, political and general cultural ramifications of the major systems of thought.

PHIL 3365. Modern Philosophy. 3 Hours.
Students survey philosophical thought from about 1500 through the twentieth century via an examination of topics that may include the philosophical significance of the rise of modern science, the classical philosophies of rationalism, empiricism, the philosophy of Kant, and the development of these philosophies through the nineteenth and twentieth centuries.

PHIL 3366. Aesthetics. 3 Hours.
Students examine the nature and meaning of art and aesthetic theories concerning representation, form, and expression. Further, students engage in analyses of aesthetic experience and the relation of art to value. This course satisfies 3 semester hours of the fine arts requirement for the BA degree program.

PHIL 3367. Philosophy of Religion. 3 Hours.
Students examine the nature and meaning of religion and religious expression with consideration of philosophical and scientific critiques of religious faith and experience. Topics may include the nature of faith and reason, the question of the existence and nature of God, and the relation of religion and value.

PHIL 3371. Existentialism and Self-Awareness. 3 Hours.
Students examine the major themes of existentialism and its impact on contemporary society via existential works in a variety of forms, which may include philosophy, literature, psychology, psychoanalysis, and religion. Further, students examine existential concepts, which may include anxiety, fear, guilt, meaninglessness, death, and authentic and inauthentic existence. Taught with PSYC 3371.

PHIL 3372. Philosophy of Science. 3 Hours.
Students survey topics in philosophy of science, which may include the logic of explanations in the physical and social sciences, the relationship between science and society, and metaphysical or sociological critiques of science. Course content includes attention to historically prominent examples from social and natural sciences that demonstrate the applicability of important concepts from the philosophy of science.

PHIL 3373. American Philosophy. 3 Hours.
Students survey key figures and ideas of the American intellectual tradition. Themes may include democracy, freedom, cultural and racial identity, ethical and religious pluralism, and interpretations of nature from various perspectives, including current developing traditions such as African American, Native American, and Feminist movements.

PHIL 4306. Philosophy of Biology. 3 Hours.
Students investigate philosophical questions concerning the development and application of evolutionary theory. Students will also develop an understanding of key concepts, which may include adaptation, speciation, the comparative method, levels of selection, and phylogenetic reconstruction. This course is offered in the Spring semester of even years.

PHIL 4333. Bioethics. 3 Hours.
Students survey bioethics using various ethical theories and moral principles to analyze and critically evaluate moral dilemmas in medicine. Students will investigate and discuss topics that may include the patient-physician relationship, bias in medicine, health care delivery systems, and the ethics of research. To enhance critical thinking skills and decision-making skills, students will develop and defend views on given bioethical issues.
Prerequisite: Sophomore standing.

PHIL 4334. Environmental Ethics. 3 Hours.
Students examine philosophical theories about the principles and values that govern humanity's moral relationship to nature and the animal world. Topics covered may include theories of animal rights, the intrinsic value of nature, the ethics of global climate change, the moral implications of mass extinctions, and our moral responsibility to future generations.

PHIL 4336. Philosophy of Law. 3 Hours.
Students consider the philosophical nature of law, legal reasoning, and legal rights within a discussion of justice and equality under the law. Applying these theories to practice, students engage in a series of case studies examining major Supreme Court opinions. Students learn to answer these questions via reflection and argumentation that integrates and extends major jurisprudential theories.

PHIL 4361. Philosophy of Psychology and Mind. 3 Hours.
Students examine a range of contemporary theories of mind and the primary objections they face. Topics may include mind/brain identity theory and reductionism, the nature and function of consciousness, the nature of rationality and its relation to consciousness, the possibility of machine intelligence, and the nature of mental representation.

PHIL 4363. Ethical Theories. 3 Hours.
Students examine classical views about the foundation of ethics, which may include divine command, cultural relativism, subjectivism, egoism, utilitarianism, Kantianism, and virtue ethics. Students will also devote significant attention to a variety of contemporary approaches to understanding ethics.

PHIL 4371. Death and Dying. 3 Hours.
Students examine philosophical reflections on death and dying in a variety of forms, which may include literature, philosophy, psychology, theology, medicine, and other contemporary sources. Topics may include the nature of grief, sorrow, anxiety, fear, and suicide as related to death, and the social implications of death for the individual, family, friends, and community.

PHIL 4372. Theories of Knowledge and Reality. 3 Hours.
Students examine issues concerning the basic categories of reality, which may include individuals and universals, time and change, and mind and body. Further, students explore issues in the theory of knowledge, which may include the distinction between knowledge and belief, the criteria of knowledge, and the justification of knowledge claims.
Prerequisite: 6 hours of philosophy and sophomore standing.

PHIL 4373. Philosophy in Film and Literature. 3 Hours.
Students establish and develop philosophical literacy by highlighting the ways in which canonical philosophical works have informed the content and structure of works of film and literature. Carefully selected pairings of philosophical texts and films are used throughout.
Prerequisite: 3 hours of philosophy and at least sophomore standing.

PHIL 4374. Philosophy of Crime & Justice. 3 Hours.
Students examine foundations of the American criminal justice system, considering questions such as: is there a moral justification of punishment;what basic principles guide law enforcement in practice; how did these principles come to be in place; and how do they connect to the moral and political ideals on which the country was founded? Students critically engage with philosophical, legal, sociological, and historical resources.

PHIL 4375. Feminist Philosophies. 3 Hours.
Students examine competing feminist theories that take a distinctively philosophical approach to social hierarchies and the systems that ground, promote, or conceal them. Questions explored may include how feminist philosophers distinguish between sex and gender; what role sexuality plays in both personal and social identities; how sex, gender, and sexuality intersect with race and class; how feminist theories help us to make sense of pop culture; and how best to affirm the differences in women’s lived experiences both locally and globally.

PHIL 4377. Philosophy of Race. 3 Hours.
Students investigate the philosophical foundations of the concept of race, by analyzing distinctions among human beings according to race founded on anthropological, biological, and philosophical principles. Additionally, students consider whether racial hierarchies are morally and politically justifiable, and if not, students explore how these racial hierarchies can be eradicated through individual or collective social action. Accordingly, students analyze themes in critical race theory and the philosophy of race with the intent of appraising their capacity to help generate social justice.

PHIL 4380. Seminar in Philosophy. 3 Hours.
Students engage in an in-depth study, conducted on a seminar basis, of a particular topic or area in philosophy not covered fully in the other course offerings. As the topics vary, the course may be repeated for credit.

PHIL 4385. Readings in Philosophy. 3 Hours.
Advanced students capable of independent study will develop a program of study in conjunction with an instructor.
Prerequisite: Admission to the course requires permission of the instructor.

Physics (PHYS)

PHYS 1101. General Physics Laboratory I. 1 Hour. [TCCN: PHYS 1101]
Laboratory taken in conjunction with PHYS 1301.
Prerequisite: MATH 1410 or MATH 1316 or MATH 1420 .

PHYS 1102. General Physics Laboratory II. 1 Hour. [TCCN: PHYS 1102]
Laboratory taken in conjunction with PHYS 1302.

PHYS 1105. Classical Physics and Thermodynamics Lab. 1 Hour. [TCCN: PHYS 1105]
Laboratory taken in conjunction with PHYS 1305.

PHYS 1301. General Physics-Mechanics and Heat. 3 Hours. [TCCN: PHYS 1301]
A modern treatment is made of the laws and principles of motion, force, momentum, energy, and rotation. This course is intended for science majors whose degree plan does not require a calculus-based treatment. The PHYS 1101 experimental laboratory course should be taken concurrently.
Prerequisite: MATH 1410 or MATH 1316 or MATH 1420.

PHYS 1302. General Physics-Sound, Light, Electricity, and Magnetism. 3 Hours. [TCCN: PHYS 1302]
The course is a continuation of PHYS 1301, covering the subjects of electricity and magnetism, including circuits applications. The course is intended for science majors whose degree plan does not require a calculus-based treatment. The PHYS 1102 experimental laboratory course should be taken concurrently.
Prerequisite: PHYS 1301 and MATH 1316 or MATH 1410 or MATH 1420.

PHYS 1305. Classical Physics and Thermodynamics. 3 Hours. [TCCN: PHYS 1305]
Students study the fundamentals of motion, forces, energy, and heat at a conceptual level. The course is intended for students who are not science majors, including those on primary and middle school education tracks.

PHYS 1401. Physics Boot Camp. 4 Hours.
Students engage in a review of the essential mathematical and problem solving skills required for the first two years of the physics, pre-engineering, and certain engineering-technology degree plans. Applications focus on the context of physics and engineering examples, starting from first principles. All students considering a physics or pre-engineering major should enroll in the Bootcamp during their first semester on campus. A weekly group problem solving practice session is integrated.

PHYS 1403. Stars & Galaxies. 4 Hours. [TCCN: PHYS 1403]
Students study the universe beyond the solar system. Topics may include the nature of stars, stellar evolution, galaxies, quasars, cosmology, the universe as a whole, and theories about the origin and fate of the universe. Students are introduced to tools astronomers use to determine such properties as temperatures, compositions, motions, masses, and evolution of astronomical objects. Note: PHYS 1403 and PHYS 1404 may be taken in either order. Course Equivalents: PHYS 1312 .

PHYS 1404. Solar System Astronomy. 4 Hours. [TCCN: PHYS 1404]
Students study the solar system as well as other planetary systems. Topics may include the nature of science, apparent motions in the sky, the historical development of the laws governing the solar system, the structure and membership of solar system objects, the formation of the solar system, and extrasolar planets and our understanding of other solar systems. Note: PHYS 1403 and PHYS 1404 may be taken in either order. Course Equivalents: PHYS 1311 .

PHYS 1411. Introduction To Physics I. 4 Hours. [TCCN: PHYS 2425]
Students are introduced to the topics of classical mechanics, including linear motion, forces, rotation, and conservation laws. Considerable attention is given to the solution of problems with the emphasis placed on fundamental concepts. Students must register concurrently for the integrated weekly laboratory problem-solving session. Calculus I (MATH 1420) may be taken concurrently by students who have completed Physics Bootcamp (PHYS 1401).
Prerequisite: MATH 1420.

PHYS 1422. Introduction To Physics II. 4 Hours. [TCCN: PHYS 2426]
Students are introduced to the topics of electricity and magnetism, including Maxwell's equations, the Lorentz force, and basic electrical circuits. Considerable attention is given to the solution of problems with the emphasis placed on fundamental concepts. Students must register for the integrated weekly laboratory problem-solving session. Completion of Calculus II (MATH 1430) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 1411 and MATH 1430.

PHYS 2426. Heat, Waves & Modern Physics. 4 Hours.
An introduction to topics in heat and wave motion including sound and light. The quantitative description of phenomena is emphasized. The laboratory continues as an integral part of the course.
Prerequisite: PHYS 1411 and MATH 1420.

PHYS 3111. Modern Physics Laboratory I. 1 Hour.
Laboratory taken in conjunction with PHYS 3391. Students reproduce key experimental outcomes underlying 20th century physics.
Prerequisite: PHYS 1422.

PHYS 3115. Electronics and Circuit Analysis Lab. 1 Hour.
Laboratory taken in conjunction with PHYS 3395. Students construct and analyze advanced circuits including both classical and semiconductor-based components.
Prerequisite: PHYS 1422 .

PHYS 3117. Astronomy Laboratory. 1 Hour.
Laboratory taken in conjunction with PHYS 3397.

PHYS 3360. Statics And Dynamics. 3 Hours.
Students study equilibrium, using concepts of force and torque. Vectors, calculus and differential equations are used. Completion of Calculus II (MATH 1430) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 1411 and MATH 2440.

PHYS 3370. Introduction to Theoretical Physics. 3 Hours.
Students study the essential techniques of mathematical analysis required for the latter two years of the physics degree plan. The course focuses on physics applications of series (Taylor, Fourier, Laurent), vector calculus, generalized coordinates, differential equations, special functions, and complex analysis. Students register concurrently for the PHYS 4110 laboratory. Completion of Calculus III (MATH 2440) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 1422 and MATH 2440.

PHYS 3391. Modern Physics I. 3 Hours.
Students explore the historical breakdown of classical physics that occurred at the beginning of the 20th century, presaging the introduction of Relativity Theory and Quantum Mechanics. Significant treatment of probability and statistics is integral to the understanding of these topics. Completion of Calculus III (MATH 2440) is recommended, though it may be taken concurrently. PHYS 3111 must be taken concurrently.
Prerequisite: MATH 2440 and PHYS 1422.

PHYS 3395. Electronics & Circuit Analysis. 3 Hours.
Students study advanced circuit analysis, including analog filters, digital integrated circuits such as op-amps, selected discrete components such as diodes and transistors, and applications to various digital and analog systems. The PHYS 3115 laboratory must be taken concurrently. Completion of Calculus III (MATH 2440) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 1422 .

PHYS 3397. Astronomy. 3 Hours.
Students continue their study of the solar system, sun, stars, and stellar systems, their motions, structure, energy sources and evolution, star clusters, interstellar matter, galaxies, and cosmology. The PHYS 3117 laboratory must be taken concurrently.
Prerequisite: PHYS 3117 must be taken concurrently.

PHYS 3398. Astronomy-Honors. 3 Hours.

PHYS 4110. Advanced Undergraduate Laboratory I. 1 Hour.
Laboratory taken in conjunction with PHYS 3370. Students are introduced to methods of analysis (e.g. statistical distributions, likelihoods, and error propagation) and technologies (e.g. programming with Python, symbolic algebra and visualization with Mathematica, typesetting with LaTeX, and the Linux operating system) commonly used in graduate study and research applications.

PHYS 4113. Light And Optics. 1 Hour.
Laboratory taken in conjunction with PHYS 4333. Students reproduce key experimental outcomes with lensing, reflection, interference and diffraction.

PHYS 4331. Physics For Forensic Sciences. 3 Hours.
Forensic science makes use of a number of physical techniques. Students are provided with an understanding of the physics used in forensic science that enhances the standard introductory physics course. Topics covered may include interior and exterior ballistics, optics, stress and strain, elementary fluid mechanics.

PHYS 4333. Light And Optics. 3 Hours.
The wave theory of light is emphasized. Phenomena such as interference, diffraction, reflection, transmission, and polarization are treated with quantitative detail. The PHYS 4113 laboratory must be taken concurrently. Completion of Calculus III (MATH 2440) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 1422 .

PHYS 4366. Introduction to Quantum Mechanics. 3 Hours.
The subject of quantum mechanics describes the wave nature of matter, which is relevant at atomic scales. Topics may include the harmonic oscillator, potentials, symmetries, rotation and spin, the hydrogen atom, and atomic spectra. Completion of Differential Equations (MATH 3376) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 3391 and MATH 3376 with a grade of C or better.

PHYS 4367. Introduction to Solid State Physics. 3 Hours.
Students are introduced to the concepts of crystal structure, diffraction, reciprocal lattices, binding, phonons, the free electron Fermi gas, semi-conductors, energy bands, Fermi surfaces, point defects, and optical properties of crystals. Completion of Differential Equations (MATH 3376) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 3391.

PHYS 4368. Electricity And Magnetism. 3 Hours.
Students engage in a more advanced treatment of the classical theory of Electricity and Magnetism which extends the material covered in PHYS 1422. Maxwell's equations are studied in integral and differential form. Topics may include electro- and magneto-statics and dynamics, potentials, fields, waves, and applications to materials. Completion of Differential Equations (MATH 3376) is recommended, though it may be taken concurrently.
Prerequisite: MATH 3376 and PHYS 1422.

PHYS 4370. Classical Mechanics. 3 Hours.
Students engage in a more advanced treatment of the classical theory of Mechanics which extends the material covered in PHYS 1411. Newton's second law is treated as a differential equation to study kinematics, oscillations, and conservation laws. Lagrangian dynamics are introduced, along with generalized coordinates. Additional topics may include orbital motion, rigid bodies, coupled systems, and effective potentials. Completion of Calculus III (MATH 2440) is recommended, though it may be taken concurrently.
Prerequisite: MATH 3376.

PHYS 4371. Thermodynamics and Statistical Mechanics. 3 Hours.
Students study foundational concepts of classical thermodynamics, including the first and second laws, properties of gases, entropy, and thermodynamic functions. These concepts are formally connected to and derived from their origins in statistical mechanics. Completion of Differential Equations (MATH 3376) is recommended, though it may be taken concurrently.
Prerequisite: PHYS 3391 and MATH 3376.

PHYS 4395. Undergraduate Research. 3 Hours.
Students conduct original research under the direct supervision of a faculty member. Projects may be supervised by non-physics faculty with departmental approval. Each student is expected to demonstrate initiative in planning, performing, and reporting work done on the selected topic. The course may be repeated for up to a total of 6 credit hours with departmental approval.
Prerequisite: Consent of Department Chair.

PHYS 4396. Selected Topics In Physics. 3 Hours.
Students study various advanced topics of contemporary interest in physics. The course is offered upon demand, and content is dependent upon faculty availability and student interest. May be repeated for additional credit with distinct course content.
Prerequisite: Consent of the instructor.

PHYS 4398. Senior Thesis. 3 Hours.
This is a directed elective for upper-division students majoring in Physics and/or minoring in Astronomy who seek to couple original research or guided independent study with an exercise in technical writing. Research activities in the fundamental or applied sciences, including science education, and/or a topically similar literature review, are supervised by a member of the Physics and Astronomy faculty. Findings are presented in an organized written form of suitable length with appropriate attention to scholarly norms, e.g. in the handling of data and citation of prior works.
Prerequisite: Approval of the Supervising Faculty Member.

Piano (PIAN)

PIAN 1101. Secondary Performances-Piano. 1 Hour.
Students study techniques and musicality related to piano in weekly individualized private instruction. Students admitted as a Piano primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

PIAN 1201. Individual Performances-Piano. 2 Hours.
The course consists of individualized private instruction on the piano. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

PIAN 3201. Individual Performances-Piano. 2 Hours.
The course consists of advanced individualized private instruction on the piano. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

PIAN 3202. Applied Piano with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the piano. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Plant & Soil Sciences (PLSC)

PLSC 1107. Plant Science Laboratory. 1 Hour. [TCCN: AGRI 1107]
Laboratory for PLSC 1307. Course Equivalents: AGRI 1107.
Prerequisite: Concurrent enrollment in PLSC 1307.

PLSC 1307. Plant Science. 3 Hours. [TCCN: AGRI 1307]
Students study basic plant morphology, classification, propagation, and crop improvement along with growth and development of crop plants. Students are introduced to soils, climate, and plant protection follow with a final overview of the major groups of cultivated plants.

PLSC 2375. Turfgrass Science. 3 Hours.
Students study the major turfgrass species grown in the U.S. and throughout much of the world. Students explore differences in management, culture, and varietal selection for athletic, ornamental, and utility turfs. Course Equivalents: AGRI 2375
Prerequisite: None.

PLSC 2395. Ornamental Plant Identification. 3 Hours.
Students explore identification, growth characteristics, culture, and use of common landscape and greenhouse plants. Materials include trees, shrubs, vines, groundcovers, and turf grasses. Emphasis is placed on temperate region plants. Course Equivalents: AGRI 2395
Prerequisite: PLSC 1307.

PLSC 2396. Special Topics in Plant and Soil Science. 3 Hours.
Students examine special topics/issues in Plant and Soil Science at an introductory level. This course may be repeated up to three times as topics and subject matter change.

PLSC 2399. Floral Design. 3 Hours.
Students explore principles and elements of design illustrated with the use of floral materials; techniques involved in design and construction of floral arrangements; and history of and utilization of floral art in society. Course Equivalents: AGRI 2399 .

PLSC 3300. Applied Plant Physiology. 3 Hours.
Students examine core plant processes of photosynthesis, respiration, transpiration, and their effects on the growth quality of agricultural crops. Topics include stress response, hormones, abiotic and biotic factors, and their effects on metabolic processes in agricultural crops.
Prerequisite: PLSC 1307.

PLSC 3320. Landscape Plant Materials. 3 Hours.
Students identify common annual and perennial herbaceous landscape plants and examine their climatic adaptation and use. Emphasis is placed on tropical and subtropical landscaping plants, including various trees, shrubs, groundcovers, and vines.
Prerequisite: PLSC 1307.

PLSC 3374. Controlled Environment Agriculture. 3 Hours.
This course is designed to cover the principles and techniques involved in the production and management of nurseries and greenhouse crops including ornamental trees, shrubs, annuals, and perennials. Course Equivalents: AGRI 3374
Prerequisite: PLSC 1307 and Sophomore standing.

PLSC 3379. Turfgrass Culture. 3 Hours.
Student explore the principles of sexual and asexual propagation of major turf species, soils and rooting media, nutrient management, irrigation, pest control, and selection of appropriate cultivars are covered in this course. Course Equivalents: AGRI 3379
Prerequisite: PLSC 1307 and Sophomore standing.

PLSC 3395. Plant Propagation Techniques. 3 Hours.
Students explore in detail the principles and practices involved in propagation of plants. Emphasis is placed on sexual and asexual methods of propagation and the biochemical/hormonal factors involved. Propagation techniques of several horticultural crops are covered and practiced. Course Equivalents: AGRI 3395
Prerequisite: PLSC 1307/1107 and Sophomore standing.

PLSC 3398. Landscape Design I. 3 Hours.
Students explore the principles, elements, and factors to be considered in preparation, planning, and design of a residential landscape. Emphasis is placed on the incorporation of plant materials into basic landscape design. Course Equivalents: AGRI 3398
Prerequisite: PLSC 1307 and Sophomore standing.

PLSC 3440. Soil Science. 4 Hours.
Students are introduced to the physical, biological, and chemical properties of soils and their relationships to soil formation, soil fertility, soil temperature, soil-plant-water relations, pH and liming, and conservation of soils. Environmental issues are also discussed. Sophomore Standing. Course Equivalents: AGRI 3440
Prerequisite: CHEM 1406, CHEM 1407, CHEM 1411, or CHEM 1412.

PLSC 4320. Fruit & Vegetable Production. 3 Hours.
Students engage in a comprehensive study of the fruit and vegetable industry in the United States. Topics of study may include climatic requirements, growth characteristics, cultural practices, and pest control strategies. Course Equivalents: AGRI 4320
Prerequisite: PLSC 1307.

PLSC 4330. Soil Fertility Management and Fertilizers. 3 Hours.
Students study the principles of soil fertility, water, nutritional, and climatic relationships. Emphasis is placed on sources of soil nutrients, including commercial fertilizers and biological resources. Course Equivalents: AGRI 4330
Prerequisite: PLSC 3440 and Junior standing.

PLSC 4358. Landscape Operations. 3 Hours.
Students examine the principles and techniques of constructing and managing amenity landscapes. Emphasis is placed on contract documents, specifications of work, plant establishment, management plans, pruning, soil modification, and building materials.
Prerequisite: PLSC 1307.

PLSC 4368. Landscape Design II. 3 Hours.
This course is a continuation of PLSC 3398. Design skills will be refined as students experience more variety in design opportunities. Both small residential and larger public spaces are the subjects of student designs. Effective graphic presentations are stressed. In addition, installation, maintenance, and management of residential landscapes are discussed. Course Equivalents: AGRI 4368
Prerequisite: PLSC 1307 and Junior standing.

PLSC 4369. Special Topic. 3 Hours.
Students examine special topics/issues in Plant Soil Science at an advanced level. This course may be repeated up to three times as topics and subject matter change.
Prerequisite: PLSC 1307 and Junior standing.

PLSC 4370. Forage Crops and Pasture Management. 3 Hours.
Student study quality evaluation, adaptation, selection, culture, and management of the more important plants used for pasture, hay, and silage. Particular attention is given to those species grown commonly throughout the southeastern US. Course Equivalents: AGRI 4370
Prerequisite: Junior standing.

PLSC 4372. Sports Turf Management. 3 Hours.
Facility design and construction, water management, soil modification, and unique management practices commonly applied to golf courses and other sports turfs are covered. Management of budgets, personnel, equipment maintenance and irrigation scheduling are also covered. Junior standing. Course Equivalents: AGRI 4372
Prerequisite: PLSC 1307 and PLSC 3440.

PLSC 4383. Range Management. 3 Hours.
With rangelands comprising the majority of lands in the western US, students explore forage-animal management topics common to the semi-arid and arid regions of the US. Students address the unique management requirements of rangelands, the use of government-owned lands, and the competing uses of rangelands for livestock production, wildlife habitat, and recreational areas for humans. Junior standing. Course Equivalents: AGRI 4383
Prerequisite: PLSC 1307 or BIOL 1411.

PLSC 4397. Integrated Pest Management. 3 Hours.
Students engage in a comprehensive review of current cultural, biological, mechanical, and chemical techniques used in managing or controlling agricultural and residential pests. Attention is given to environmental hazards, application methods, and safety precautions in handling and storage of pesticides. Course Equivalents: AGRI 4397
Prerequisite: AGRI 1307 and Sophomore standing.

Political Science (POLS)

POLS 2304. Introduction to Political Science. 3 Hours.
Students explore the discipline of political science, including the discipline's subfields, literature, major theories, research methodology, and major debates. Students apply the tools of the discipline to analyze contemporary issues in governing, policy, and political behavior.

POLS 2305. American Government. 3 Hours. [TCCN: GOVT 2305]
Students examine American government at the national level and develop the knowledge to engage in political and civic life. Topics may include the origin and evolution of the U.S. Constitution, political behavior and attitudes, political parties, interest groups, the media, and the three branches of government - Congress, the Executive Branch, and the Judiciary. Course Equivalents: POLS 2301 .

POLS 2306. Texas Government. 3 Hours. [TCCN: GOVT 2306]
Students examine Texas government and politics. Topics may include the Texas Constitution; Texas' role in the federal system; political culture; individuals' political values and participation; interest groups; parties; elections and campaigns; the legislative, executive, and judicial branches; and fiscal, social, and economic policies.

POLS 3302. Introduction to Public Policy. 3 Hours.
Students explore how governmental entities in the U.S. make public policy. Using various policy models, students analyze the effect of policy environments, actors, processes, policy characteristics, and politics on the nature of policy outputs. Students learn to evaluate policies using a variety of program evaluation methodologies.
Prerequisite: 6 hours of POLS.

POLS 3330. American Politics. 3 Hours.
Students learn the terminology, concepts, theoretical perspectives, and methods used in the study of American politics. Students examine theories of collective action and individual behavior to answer key questions in the study of political institutions and mass behavior in the United States.
Prerequisite: 6 hours of POLS.

POLS 3331. Local Political Systems. 3 Hours.
Students examine the structure, process, and politics of local governments in Texas and the nation. Local governments may include metropolitan governments, special districts, county governments, rural and small town polities, and urban and suburban political structures. At each level, topics may include home rule, leadership recruitment and behavior, local elections, budgeting, services, and intergovernmental relations. Course Equivalents: POLS 2331
Prerequisite: 6 hours of POLS.

POLS 3332. State Political Systems. 3 Hours.
Students compare state-level politics in Texas with others in the U.S. Topics may include the legislative, executive, and judicial branches; the states' roles in the federal system; political culture; individuals' political values and participation; interest groups; parties; elections and campaigns; and fiscal, social, and economic policies. Course Equivalents: POLS 2332
Prerequisite: 6 hours of POLS.

POLS 3334. Judicial Systems. 3 Hours.
Students examine the development of judicial systems and the policy making role of courts. This course is an orientation course for pre-law students and others interested in the legal aspects of government.
Prerequisite: 6 hours of POLS.

POLS 3335. Political Ethnic Minorities and Gender. 3 Hours.
Students examine the ways in which political theory, behavior, beliefs, and public policy relate to race, ethnicity, and gender in the U.S. Course Equivalents: POLS 2335
Prerequisite: 6 hours of POLS.

POLS 3336. The Presidency and Executives. 3 Hours.
Students examine the executive offices of the President, state governors and the heads of local governing bodies in the United States. Topics may include comparative institutional development, roles, structures, processes, and functions.
Prerequisite: 6 hours of POLS.

POLS 3337. The Congress and Legislatures. 3 Hours.
Students examine the powers, organization, procedures, and operations of legislative bodies in the United States. Topics may include selection of legislators, legislative leadership, influence of lobbyists, political parties, legislative committees, executives, and legislative roles and norms.
Prerequisite: 6 hours of POLS.

POLS 3338. Victims' Rights, Politics, and Policy. 3 Hours.
Students examine the politics and policies of victims' rights, exploring the emergence of victims' rights as a political issue and as a social movement. Students study victims' rights policies and programs at the local, state, national, and international level and analyze their development, their implementation, and their impact.
Prerequisite: 6 hours of POLS.

POLS 3339. Nonprofit Organizations. 3 Hours.
Students gain an overview of the development of nonprofit organizations, examining their history, roles, and types. Topics may include nonprofit and government relations, nonprofit and business relations, nonprofit and policymaking, nonprofits in an international context, and organizational issues.
Prerequisite: 6 hours of POLS.

POLS 3360. Political Parties and Interest Groups. 3 Hours.
Students examine political parties and interest groups in U.S. politics, exploring their development and evolution, their organization and functions, and their role in politics. More specific topics may include the influence of parties and interest groups on political values, participation, voting, campaigns and elections, governing, and effects on policy.
Prerequisite: 6 hours of POLS.

POLS 3361. Central and Eastern European Politics. 3 Hours.
Students compare the political systems of Central and Eastern European states, including the European portions of the former Soviet Union, with emphasis on the problems of transition from communism to democracy and market economy.
Prerequisite: 6 hours of POLS.

POLS 3364. Politics and The Media. 3 Hours.
Students examine the role and impact of the media (the Internet, radio, television, and the various forms of print media) on U.S. politics. Topics may include the impact of the media on campaigns and election outcomes, the media as a source of political information, the agenda setting power of the media, the role of the free press in a democracy, and citizens' relationship to the media. The course may also consider the relationship between the media and politics in other nations. The course makes use of textbooks but also relies heavily on contemporary media.
Prerequisite: 6 hours of POLS.

POLS 3365. Introduction to Comparative Politics. 3 Hours.
Students examine important issues and trends in world political systems that places American government and politics in a comparative context. Students learn the terminology, concepts, and methods of comparative politics. Topics may include institutions, behavior, constitutional processes, political parties and interest groups, public policy, political development, transitions from authoritarianism to democracy and from statist to market economies, sources of domestic violence, and other major concerns of the field. Course Equivalents: POLS 2365
Prerequisite: 6 hours of POLS.

POLS 3366. Public Administration. 3 Hours.
Students explore national public administration with emphasis on the political processes within the surrounding administrative agencies. Topics may include development of the administrative function, policy formulation and budgeting, the relations of administrators to Congress, interest groups, courts, and the public. The course may include coverage of state and local topics related to public administration. Course Equivalents: POLS 2366
Prerequisite: 6 hours of POLS.

POLS 3368. Asian Politics. 3 Hours.
Students compare contemporary politics and governments in Asia. Students examine the history and culture of each country as well as the dynamics of change in the region. The course encompasses most of the countries of East Asia and Southeast Asia, including China, Japan, the Koreas, Indonesia, Malaysia, Singapore, the Philippines, Vietnam, and Cambodia. Time permitting, the course may include India and South Asia.
Prerequisite: 6 hours of POLS.

POLS 3369. Religion and Politics. 3 Hours.
Students examine the historical and contemporary relationship between religion and politics. Topics may include politics and religion in the United States, the proper role of religion in American public life, the relationship between religion and state in the Islamic world, religion and conflict situations, and the role of religion in conflict resolution.
Prerequisite: 6 hours of POLS.

POLS 3370. Western European Politics. 3 Hours.
Students compare contemporary politics and governments in Western Europe. The course typically concentrates on Britain, France, Germany, and Italy but usually includes other important and interesting countries, such as Belgium, the Netherlands, Spain, Portugal, and the Scandinavian countries. The course also covers the European Union - its policies, institutions, and expansion.
Prerequisite: 6 hours of POLS.

POLS 3372. Contemporary Political Theory. 3 Hours.
Students examine political, moral, and legal ideas from the 20th century to the present. They analyze the connection between moral theories such as utilitarianism, deontology, and pluralism and political/legal theories concerning justice, human rights, and the rule of law. Students also differentiate between historical, theoretical, and normative discourses.
Prerequisite: 6 hours of Political Science.

POLS 3373. Ideologies and Democracy. 3 Hours.
Students investigate the meaning of the term 'ideology' and the various ideologies that have informed political life in the modern world. Students examine liberalism, conservatism, socialism, communism, feminism, environmentalism, and radical Islam. Students study democracy in its various modern conceptions along with the question: Is democracy an ideology?
Prerequisite: 6 hours in POLS.

POLS 3374. Quantitative Methods for Political Science. 3 Hours.
Students study research design and the quantitative methods used in contemporary political science research. Students apply the tools of social science inquiry in a series of projects designed to examine phenomena such as political attitudes and behavior. The course emphasizes descriptive statistics, tabular and graphic presentation of data, measures of association and correlations, and multivariate analysis in political research.
Prerequisite: POLS major, 6 hours POLS, and permission of the department.

POLS 3375. Politics of The Middle East. 3 Hours.
Students examine contemporary patterns of government and politics in the Middle East. The course encompasses most of the countries of the Middle East, including Egypt, Israel, Lebanon, Jordan, Saudi Arabia, the Gulf States, Iraq, Iran, and Turkey. North Africa may also be included. Students study the historical legacies and continuing impact of colonialism and nationalism, political Islam and secularism, challenges of authority, and legitimacy. Students also explore the ways in which the Israeli-Palestinian conflict and regime change in the region impact U.S. foreign policy and the region more broadly.
Prerequisite: 6 hours of POLS.

POLS 3377. Survey of Political Theory. 3 Hours.
Students examine the political ideas, philosophers, and relevant historical events in Western Europe over the past two thousand years. Students study the representative political writings from the time of Plato to Nietzsche, addressing political values and ideas in their original historical context as well as independently of any particular historical or cultural limitations.
Prerequisite: 6 hours of POLS.

POLS 3378. American Political Thought. 3 Hours.
Students study American political ideas and movements from colonial times to the present.
Prerequisite: 6 hours of POLS.

POLS 3379. Research and Writing in Political Science. 3 Hours.
Students gain knowledge of basic research methods and design in the social sciences, with particular attention to survey research. Students develop research and writing skills including how to locate, evaluate, and cite electronic and printed sources; how to conduct a literature review; how to write proposals, reports, and research papers; and how to edit proposals, reports, and papers.
Prerequisite: POLS major, 6 hours POLS, and permission of the department.

POLS 3380. Introduction to International Relations. 3 Hours.
Students examine the relations between nation-states in the international system and the factors influencing their behavior. Topics may include the changing nature of the international system; the political and economic sources of tension, war and diplomacy; international law and organization; and the bases of power.
Prerequisite: 6 hours of POLS.

POLS 3381. American Foreign Policy. 3 Hours.
Students examine the domestic and international forces which influence the development of American foreign policy. The course emphasizes the post-World War II era and may include discussion of U.S. foreign policy at the settlement of World War II, the politics and crises of the Cold War, and America's role in the post-Cold War world order. Course Equivalents: POLS 2381
Prerequisite: 6 hours of POLS.

POLS 3385. International Law and Organizations. 3 Hours.
Students examine the role of international organizations and law. Topics may include the evolution of the United Nations (UN) and its precursors, UN structure and governance, the UN's role in international peace and security, emerging human rights law, laws governing war, and issues related to economic development and the global environment.
Prerequisite: 6 hours of POLS.

POLS 3386. International Political Economy. 3 Hours.
Students examine the interplay between states and markets and the interaction of the world economy and international politics. Students study the nature of political economy, the major ideologies and approaches, and specific topics that may include the political ramifications of international trade, investment, debt and financial markets and the impact of globalization on the human condition and the environment.
Prerequisite: 6 hours of POLS.

POLS 3387. Latin American Politics. 3 Hours. [TCCN: GOVT 2311]
Students examine contemporary patterns of government and politics in Latin America with emphasis on institutions, processes, behavior. Students study the historical, social, and economic background factors affecting the region, along with major issues of U.S.-Latin American relations. For selected nations, topics may include problems of democracy, authoritarianism, and political development.
Prerequisite: 6 hours of POLS.

POLS 3391. Government Organization and Management. 3 Hours.
Students compare governmental organizations within society and analyze their impacts upon practices of administration in public agencies. Students explore the management tools available to governmental agencies and their capabilities and limitations.
Prerequisite: 6 hours of POLS.

POLS 3392. Economic Policy. 3 Hours.
Students examine the roles of modern government in the economy and society, including regulating and promoting business activity.
Prerequisite: 6 hours of POLS.

POLS 3393. Social Policy. 3 Hours.
Students examine of the roles, actions, and problems of modern governments in dealing with social issues such as education, health, housing, transportation, and welfare services.
Prerequisite: 6 hours of POLS.

POLS 3395. Environmental Policy. 3 Hours.
Students examine major environmental issues and policies affecting the United States and the rest of the world. Topics may include clean air and water, endangered species, invasive alien species, public land management, ecosystem management, the conservation of biodiversity, nuclear power, waste disposal and energy production and use.
Prerequisite: 6 hours of POLS.

POLS 3398. Gulf Seminar. 3 Hours.
Students analyze issues in the Gulf region from multidisciplinary perspectives, including physical science, social science, humanities, and the arts. Students focus on systems thinking, including issues of scale from local to global, to assess environmental, societal, economic, policy, and community-related challenges in the Houston metro area, Southeast Texas, and the broader Gulf region. Readings, discussion, and undergraduate research methods are emphasized.
Prerequisite: Junior standing and approval of the instructor.

POLS 4081. Problems in Political Science. 1-3 Hours.
Students examine a single special topic which cuts across the usual subfields of political science. Topics may include political socialization, ethnic politics, crises in political systems, research techniques, and other subjects. Students may repeat this course when the topic varies. They may earn between 1 and 3 hours credit. Variable Credit (1-3). Course Equivalents: POLS 4381
Prerequisite: 6 hours of POLS.

POLS 4094. Political Science Internship. 1-6 Hours.
Students gain professional field experience through department-approved internships in public sector organizations. Students work under the supervision of an on-site coordinator and a political science faculty member. They may earn up to 6 hours of internship credit. Variable Credit (1 to 6).
Prerequisite: 6 hours of POLS and the permission of the department.

POLS 4095. Independent Studies. 1-3 Hours.
Advanced students in Political Science, who are capable of independent study, engage in advanced readings and directed research. Registration is upon the approval of the Chair of the Department of Political Science and the instructor directing the course. This course may be taken for Academic Distinction Credit. Variable Credit (1-3). Course Equivalents: POLS 4395
Prerequisite: 6 hours of Political Science and departmental permission.

POLS 4334. Constitutional Law I: Civil Rights and Liberties. 3 Hours.
Students study the opinions of the U.S. Supreme Court and examine the development of rights and liberties through the Court's interpretation of the Bill of Rights.
Prerequisite: 6 hours of POLS.

POLS 4335. Constitutional Law II: Gov Powers & State-Federal Relations. 3 Hours.
Students study the opinions of the U.S. Supreme Court and examine the development of government powers at the state and federal level through the Court's interpretation of the Constitution.
Prerequisite: 6 hours of POLS.

POLS 4372. Political Attitudes & Behavior. 3 Hours.
Students examine political attitudes and behavior by exploring the sources of political knowledge; how political attitudes are formed and changed; how public opinion is measured; and why people vote the way they do.
Prerequisite: 6 hours of POLS.

POLS 4383. International Human Rights. 3 Hours.
Students examine the theory and practical meaning of human rights. Issues covered may include the definition of human rights; the relationship between civil and political rights and economic, social and cultural rights; the meaning and impact of humanitarian and international human rights law; the impact of cultural relativism in the definition and assessment of the promotion and protection of human rights; the significance of different religious perspectives; the question of the legitimacy of humanitarian interventions; and the effects of globalization on human rights perceptions and practices.
Prerequisite: 6 hours of POLS.

POLS 4384. Conflict Studies. 3 Hours.
Students examine the causes of international conflict and the path to international peace. Topics may include changes in the nature of war, theories of the onset of interstate war, and the various methods of achieving peace.
Prerequisite: 6 hours of POLS.

POLS 4385. Political Violence & Terrorism. 3 Hours.
Students examine political violence that occurs within states, including violence perpetrated by the state against its own citizens and violence that accompanies anti-government movements. Students study cases and theories of political violence, as well as methods of their resolution. Specific topics may include state repression, domestic and transnational terrorism, guerilla warfare, civil wars, and revolution.
Prerequisite: 6 hours of POLS.

Psychology (PSYC)

PSYC 1301. Introduction To Psychology. 3 Hours. [TCCN: PSYC 2301]
(SH Prior Course ID: PSY 131); This course is designed to be a broad survey of the field of psychology covering such topics as learning, perception, personality, development, psychopathology, etc. It covers both the theoretical basis and the empirical content of these areas.

PSYC 2315. Psychology Of Adjustment. 3 Hours. [TCCN: PSYC 2315]
(SH Prior Course ID: PSY 289); A study is made of the dynamics of human behavior applying psychological theory to the development of the wholesome well-adjusted personality. Techniques for managing stress, reducing anxiety, coping with anger, increasing assertiveness, and achieving self-control are considered.

PSYC 3331. Abnormal Psychology. 3 Hours. [TCCN: PSYC 2320]
(SH Prior Course ID: PSY 331); This course includes an introduction to behavioral disorders. Biological and social factors in the development, diagnosis, and treatment of psychopathology are studied. .
Prerequisite: 3 semester hours of Psychology.

PSYC 3332. History Of Psychology. 3 Hours.
(SH Prior Course ID: PSY 332); This course includes an historical survey of the scientific and philosophic antecedents of modern psychology. .
Prerequisite: 3 semester hours of Psychology.

PSYC 3333. Physiological Psychology. 3 Hours.
This course is designed to acquaint the student with the biological substrates of behavior. A study is made of the genetic, neuroanatomical, neurochemical and neurophysiological mechanisms of such psychological processes as sensation, movement, learning, memory, motivation and emotion. This course is offered primarily for psychology majors and minors but may serve as an elective for majors in biology, chemistry, and public health. Cannot be taken concurrently. .
Prerequisite: 3 hours in Psychology or 4 hours in Biology.

PSYC 3334. Human Sexuality. 3 Hours.
(SH Prior Course ID: PSY 334); A study is made of the biological, social, emotional, cognitive, and spiritual elements of our human sexuality. Topics such as sexual health, sexual dysfunction, sexuality education, and intimate relationships are covered.

PSYC 3336. Sensation/Perception. 3 Hours.
(SH Prior Course ID: PSY 336); A study is made of the sensory processes, the relationship between physical stimuli and sensory/perceptual experience, and perceptual phenomena. Topics such as pain, constancies, illusions, and psychophysics are covered.

PSYC 3337. Cognition. 3 Hours.
(SH Prior Course ID: PSY 337); This course is intended to provide a broad survey of the field of cognitive psychology covering such topics as attention, memory, forgetting, consciousness, and organization/structure. It covers both the theoretical basis and empirical content of the area.

PSYC 3365. Close Relationships. 3 Hours.
(SH Prior Course ID: PSY 365); This course examines the processes of close relationships, employing psychological theory and research. Topics include the nature of intimacy, attraction, communication, interdependency, love, jealousy, conflict, and loneliness.

PSYC 3374. Development Psychology. 3 Hours.
A study is made of the physical, mental, emotional, and social growth and development of the person across the entire life span.

PSYC 3375. Psychopathology and Family Dynamics. 3 Hours.
(Prior SH course id: PSY 375); This course examines the interactions of psychopathology and family dynamics. Topics include parenting, chronic physical illness, mood and anxiety disorders, physical and sexual abuse, and chemical dependence.
Prerequisite: Junior standing and either PSYC 3331, FACS 3369, SOCI 3331, or COMS 4386.

PSYC 3381. Social Psychology. 3 Hours. [TCCN: PSYC 2319]
(SH Prior Course ID: PSY 381); This course examines individual human behavior as it is influenced by cultural and social stimuli. Topics studied include interpersonal attraction, aggression, prejudice and sexism, conformity, altruism, and group behavior.

PSYC 3382. Comparative Psychology. 3 Hours.
This course deals with physical and behavioral differences in animals and how these differences can be adaptive. Specific topics include habitat selection, territoriality, predator and anti-predator behavior, reproductive behavior, and social behavior.
Prerequisite: PSYC 2302 and PSYC 3301.

PSYC 3383. Psychology And The Law. 3 Hours.
(SH Prior Course ID: PSY 383); This course is designed to examine the application of scientific and professional principles of psychology in the legal system, the use of social science methods to study the legal system, and the impact of law on the practice of psychology. Content areas include legal competencies, the insanity defense, jury consultation, psychologists and the death penalty, the accuracy of eyewitness testimony, prediction of violence, the psychology of victims, family law, and ethical dilemmas. .
Prerequisite: 6 hours of PSYC and Sophomore standing.

PSYC 3385. Health Psychology. 3 Hours.
(SH Prior Course ID: PSY 385); This course examines how biological, psychological, and social factors interact and contribute to health promotion, illness prevention, coping with stress, pain, or other acute or chronic diseases, and recovery from and adjustment to serious health problems. .
Prerequisite: 6 hours of PSYC.

PSYC 3391. Psychopharmacology. 3 Hours.
(SH Prior Course ID: PSY 391); This course includes a study of the field of behavioral pharmacology: the systematic study of the effects of drugs on behavior and the way in which behavioral principles can help in understanding how drugs work. The course focuses on the neurophysiological mechanisms of action of various psychoactive drugs. Cannot be taken concurrently.
Prerequisite: 3 hours of PSYC or 4 hours of BIOL.

PSYC 3401. Research Methods. 4 Hours.
This course is designed to introduce the student to the scientific method in general and research methodology in psychology in particular through laboratory and field experiments. Laboratory period required.

PSYC 3402. Psychological Statistics. 4 Hours.
This course is a study of statistics as applied to problems in psychology and education, to include frequency functions, correlation and regression, and statistical tests of significance. Lecture and lab component. Course Equivalents: PSYC 3101, PSYC 3301 .

PSYC 4075. Problems. 1-3 Hours.
(SH Prior Course ID: PSY 475); Designed for advanced students in psychology who are capable of independent study. Variable Credit (1-3). Course Equivalents: PSYC 4375
Prerequisite: Approval of Program Coordinator and the instructor directing the study.

PSYC 4331. Personality. 3 Hours.
(SH Prior Course ID: PSY 431); A study is made of the major theories of personality; the biological and social factors in the development and functioning of personality are considered.
Prerequisite: 6 semester hours of Psychology.

PSYC 4332. Learning. 3 Hours.
(SH Prior Course ID: PSY 432); This course includes a study of the major theories of learning and their historical backgrounds; experimental procedures in the study of learning are discussed.
Prerequisite: 6 semester hours of Psychology.

PSYC 4333. Seminar In Psychology. 3 Hours.
(SH Prior Course ID: PSY 433); This course includes discussions of selected topics in psychology.

PSYC 4334. Applied Social Psychology. 3 Hours.
(SH Prior Course ID: PSY 434); This course examines the use of social psychological theory and method to explain and solve real world problems. Topics include physical and mental health, the environment, law, consumerism, and processes of conflict and social influence.
Prerequisite: PSYC 3381.

PSYC 4374. Psychology of the Elderly. 3 Hours.
This course examines the field of developmental psychology of the elderly addressing such topics as learning, perception, personality, development, mental health issues, etc. It addresses both the theoretical basis and the empirical content of these areas.
Prerequisite: PSYC 1301.

PSYC 4391. Divorce: Psychological Impact. 3 Hours.
(SH Prior Course ID: PSY 491); A comprehensive investigation is made of psychological, legal, moral, religious, and cultural variables related to cause, process, and adjustment to divorce is made. Emphasis is placed on the impact of divorce on the individual.
Prerequisite: Consent of instructor.

PSYC 4392. Industrial/Organizational Psychology. 3 Hours.
(SH Prior Course ID: PSY 492); This course provides an integration of psychological principles as applied to industrial/organizational milieu. The focus is on the application of research methodology, psychological assessment, personality, and organizational theories to the work environment. Specifically, research related to the application of psychological theory related to personnel, work environment, organizational, and pertinent legal issues will be considered.
Prerequisite: PSYC 1301 or PSYC 2315.

Reading (READ)

READ 0101. Reading Enrichment. 1 Hour.
This course will build strategies and skills necessary to read and think critically at the college level. This course will be paired with a credit-bearing course which has been determined to include intensive reading. Credit in this course does not count towards graduation and computation of grade point averages and classification of students by hours completed. Co-requisite: Intensive Reading Course.

READ 1301. Strategies for College Reading and Thinking. 3 Hours.
Students will learn and practice strategies and skills necessary to read and think critically at the college level. Course focus is on reading in all academic disciplines, especially those with heavy reading content. Two hour class and one hour computerized tutorial.

READ 2305. Literacy Process of Culturally & Linguistically Diverse Pops. 3 Hours.
The fundamental concepts, principles, and conflicts of second language learning and teaching. Effective instructional approaches for students of diverse cultural and linguistic backgrounds are learned and applied. The use of multiethnic literature in the classroom is a special focus of this course.

READ 2306. Literacy as a Foundation for Learning. 3 Hours.
Students examine their personal literacy development and their philosophical assumptions underlying literacy instruction in order to build a basis for the theories and practices provided in the advanced reading courses.

READ 3315. Teaching Multiple Literacies. 3 Hours.
In this course, candidates focus on the teaching of multiple literacies across content areas in both traditional and digital formats in grades EC-6. Students apply content specific literacy skills and strategies designed to enhance children's reading, writing, listening, speaking, viewing, and thinking.

READ 3370. The Teaching Of Reading. 3 Hours.
The fundamental concepts and principles of reading instruction and focus on the developmental stages of reading. Word attack, comprehension, study strategies and other aspects of a balanced literacy program are learned and applied. Concurrent enrollment in TESL 3101 is required for EC6 students. Field experiences in PK-12 public schools required. Advance departmental approval and BESL 3301 required. Admission to educator preparation program required.
Prerequisite: Must be taken concurrently with READ 3371 and READ 3372.

READ 3371. Literacy Assessment and Instruction. 3 Hours.
Students will administer and interpret varied assessment tools as well as select and implement appropriate instructional techniques to plan and conduct effective classroom literacy instruction. Field experiences in PK-12 public schools required. Must be taken concurrently with READ 3370 and READ 3372. Concurrent enrollment in TESL 3101 is required for EC6 students. Advance departmental approval and BESL 3301 required. Admission to educator preparation program required.
Prerequisite: Field experiences in PK-12 public schools required.

READ 3372. The Teaching Of Language Arts. 3 Hours.
Focus on the developmental stages of writing and the interrelated language processes of listening, speaking and reading and writing. Pre-service teachers will explore theories and instructional practices in the elementary school language arts program. Concurrent enrollment in TESL 3101 is required for EC6 students. Field experiences in PK-12 public schools required. Advance departmental approval and BESL 3301 required. Admission to educator preparation program required.
Prerequisite: Must be taken concurrently with READ 3370 and READ 3371.

READ 3373. Content Area Reading in the Middle Grades. 3 Hours.
This course focuses on using reading and writing as tools for learning in all academic areas, i.e. math, science, social studies, in grades 4-8.
Prerequisite: Junior or senior classification and grade of C or better in SPED 2301; Admission to Educator Prep Prg (TCHR)

READ 3374. Vocabulary and Word Study in the Middle Grades. 3 Hours.
Students will explore phonemic awareness, decoding skills, and vocabulary. Specifically included in the study are phonic generalizations, structural analysis, word derivations and etymology, and strategies for technical and other specialized vocabularies. Concurrent enrollment in READ 3373. Admission to Educator Prep Pgr (TCHR)
Prerequisite: Junior or senior classification and grade of C or better in SPED 2301.

READ 3380. Emergent & Beginning Literacy. 3 Hours.
Language and cognitive development, listening, speaking, reading, and writing theories and instructional practices with children from birth to grade 3.

READ 3383. Reading Methods and Assessment - Elementary. 3 Hours.
In this course, candidates focus on fundamental concepts and principles of reading instruction and assessment. Students study and apply word attack skills, comprehension strategies, and other aspects of a balanced literacy program. Twenty hours of field experience is required as part of this course. Co-requisite: READ 3384. Admission to Educator Prep Prg (TCHR)
Prerequisite: READ 3380 or READ 3315.

READ 3384. Language Arts Methods and Assessment - Elementary. 3 Hours.
In this course, candidates learn the fundamental concepts and principles of language arts instruction and assessment are emphasized. The focus of this course is on the developmental stages and interrelated language processes of reading, writing, listening, speaking, viewing, and thinking. Twenty hours of field experience is required as part of this course. Co-requisite: READ 3383. Admission to Educator Prep Prg (TCHR)
Prerequisite: READ 3380 or READ 3315.

READ 3388. Reading Methods and Assessment - Middle Level. 3 Hours.
In this course, candidates learn the fundamental concepts and principles of reading instruction and assessment in the middle grades 4-8. Students study and apply word attack skills, comprehension strategies, and other aspects of a balanced literacy program. Twenty hours of field experience is required as part of this course. Co-requisite: READ 3389.
Prerequisite: READ 3373 and READ 3374.

READ 3389. Language Arts and Assessment - Middle Level. 3 Hours.
In this course, candidates learn the fundamental concepts and principles of language arts instruction and assessment in grades 4-8 are emphasized. The focus of this course is on the developmental levels and interrelated language processes of reading, writing, listening, speaking, viewing, and thinking. Twenty hours of field experience in a 4-8 language arts classroom are included in this course. Co-requisite: READ 3388.
Prerequisite: READ 3373 and 3374.

READ 4088. Special Topics in Reading. 3 Hours.

READ 4089. Independent Study in Reading. 1-3 Hours.
Designed for students interested in extending conceptual knowledge in literacy issues. This course addresses special topics and independent study related to methodologies, curriculum, assessment, and language processes. Advance Departmental Approval Required. Course Equivalents: READ 4315 .

READ 4215. Multidisciplinary Literacies. 2 Hours.
This course emphasizes analysis, synthesis, and evaluation for the teaching of multidisciplinary literacies in grades EC-6. Preservice teachers apply content specific literacy skills and strategies designed to enhance students' reading, writing, listening, speaking, and thinking. A variety of materials is used to develop the process of teaching inquiry and research.
Prerequisite: READ 3370, 3371, 3372.

READ 4310. Reading and Language Arts in the Middle Grades. 3 Hours.
This course focuses on the uniqueness of middle grade students, middle school structures and explore literacy theories and activities that meet these needs and structures.
Prerequisite: Junior or senior classification.

READ 4311. Critical Inquiry & Thinking in Middle Grades. 3 Hours.
Students learn to apply the processes and pedagogy of critical inquiry and critical thinking theories and applications appropriate for children in grades 4-8. Attention is given to advanced literacy instruction embedded within the content areas of social studies and English language arts and reading.
Prerequisite: Admission to Educator Preparation Program, READ 3373 and READ 3374.

READ 4320. Content Area Reading & Writing. 3 Hours.
Students will learn to determine pupils' needs and abilities in content area reading and writing through the use of assessment instruments and will plan instructional strategies appropriate to their needs within specific secondary teaching fields. Field experiences in PK-12 public schools required.
Prerequisite: Junior or senior classification.

READ 4325. Integration of Multiliteracies. 3 Hours.
This course is a culminating companion course for student teaching in the middle grades. In this course, candidates learn the application of theory in content area pedagogy appropriate for grades 4-8 is explored through field experiences. Attention is given to the development of successful middle school students through advanced literacy instruction embedded within content-area classes, such as mathematics, science, social studies, and English.
Prerequisite: Admission to student teaching.

READ 4326. Critical Literacy & Genre-based Strategies in Middle Grades. 3 Hours.
Students apply the processes and pedagogy of critical literacy theories as appropriate for children in grades 4-8. Attention is given to advanced literacy instruction in English language arts and reading through genre-based strategy instruction.
Prerequisite: Admission to Educator Preparation Program, READ 3388 and READ 3389.

READ 4378. Multiple Literacies in Secondary Education. 3 Hours.
In this course, candidates learn to integrate content-specific literacy skills into their teaching. Course Equivalents: CISE 4378
Prerequisite: CISE 3384.

Real Estate (REAL)

REAL 3310. Real Estate Principles. 3 Hours.
Students explore an introduction to the nature of real estate, its value, and related decision analysis. Students are tasked with performing real estate appraisal, investment analysis, applying location theory, calculating financing, researching legal characteristics, and charting the process of development activities.

REAL 3365. Real Estate Law. 3 Hours.
Students examine the legal aspects of real estate, including the legal principles and legal instruments used in real estate transactions. Course Equivalents: BUAD 3365
Prerequisite: 42 credit hours.

REAL 4350. Real Estate Debt. 3 Hours.
Students apply concepts, techniques, and instruments integral to the financing of real estate. Students perform the application of discounted cash flow, net present value, internal rate of return, and amortization fundamentals to real estate analysis. Mortgage debt structures and calculations involving loan origination costs, servicing fees, and prepayment penalties are explored.

REAL 4351. Real Estate Equity. 3 Hours.
Students perform calculations related to real estate investment analysis. Students use a framework for making real estate investment decisions based on key financial returns/metrics and risk assessment. Students focus on mastering cash flow and proforma forecasting to inform real estate investment decisions involving acquisitions, development, and dispositions.

REAL 4352. Real Estate Market and Development Feasibility Analysis. 3 Hours.
Students examine the component parts of the real estate development process from idea inception; through project site selection, design, regulatory framework, market analysis, and financial feasibility analysis.

Safety Management (ETSM)

ETSM 2310. Introduction to Occupational Safety. 3 Hours.
Students study safety and health issues and practices at work. Topics may include how and why accidents happen, what the total costs of accidents are, and how to use the risk management approach to achieve safety. Students are introduced to the concepts of reactive versus proactive practices and their role in creating sustainable businesses that protect both people and the environment. Safety-related governmental standards and various careers in safety are also examined.

ETSM 2396. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new safety management topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010.

ETSM 3323. Construction Safety. 3 Hours.
Students learn to manage the safety and compliance responsibilities of construction projects. Students examine the most current Occupational Safety and Health Administration (OSHA) standards for construction and essential safety topics beyond general standards, such as accident-causation theories and ethics of construction safety.
Prerequisite: Junior standing or Instructor approval.

ETSM 3363. Safety Program Management. 3 Hours.
This course presents an in-depth examination of the concepts, methods, and techniques involved in safety program management. Emphasis will be placed on the development of safety management programs for the industrial and construction industries. The strengths and weaknesses of existing safety programs, performance management techniques, behavior-based safety, design safety, legal aspects of safety and health management, and emerging trends in safety and health management will be covered. Course Equivalents: ETSM 4363, ITEC 4363
Prerequisite: Junior standing.

ETSM 3371. Systems Safety & Risk Assessment. 3 Hours.
Students examine concepts, methods, and techniques involved in safety risk management. Emphasis is placed on the development of safety programs for the industrial and construction industries. Topics may include an overview of risk management processes, attributes, and disciplines; identification tools; analysis and evaluation; communication; risk analysis approach; and assessment framework.
Prerequisite: Junior Standing and MATH 3379 and ETEC 1010 and MATH 1314 or MATH 1410 or MATH 1420.

ETSM 3372. Occupational Safety Standards. 3 Hours.
Students examine the Occupational Safety and Health Act (OSHA), its rules, and the legal duty to comply with them. Topics may include record keeping, employers' and employees' rights, hazard communication, inspection and investigation, and criminal enforcement of violations. Contesting citations, judicial review of enforcement actions, and ethics in safety at the workplace may also be reviewed.
Prerequisite: ETEC 1010 and ETSM 3386 or ETSM 2310.

ETSM 3380. Accident Investigation & Analysis. 3 Hours.
Students explore aspects of safety analysis needed for accident investigation. Activities include examining theory of accident investigation; gathering, analyzing, and reporting data; and developing safety recommendations and corrective actions to prevent future accidents. Students apply analytical techniques of accident investigation to understand the strengths and limitations of these techniques.
Prerequisite: ETSM 3371 or MATH 3379.

ETSM 3386. Industrial Safety. 3 Hours.
This course is a study of the problems involved in developing an integrated safety program for an industrial or commercial establishment. It involves safety education, safe worker practices, recognition and elimination of health hazards, machinery guards, in-plant traffic, material handling and emergency treatment for industrial accidents. Course Equivalents: ETSM 4382, ITEC 4382
Prerequisite: ETEC 1010 and Junior standing.

ETSM 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of safety management skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETSM 4313. Industrial Hygiene. 3 Hours.
Students explore the field of industrial hygiene, including the chemical, physical, and biological agents that affect the health and safety of employees. Students learn procedures for measuring and controlling various agents, threshold limit values for these agents, and concepts regarding occupational health toxicology.
Prerequisite: CHEM 1411 and MATH 1410 or MATH 1314 or MATH 1324 or consent of instructor.

ETSM 4335. Human Factors & Ergonomics. 3 Hours.
Students learn the foundations of human-centric engineering to design products, processes, and systems to optimize human well-being and overall system performance. Students apply principles of anthropometrics, the musculoskeletal system, biomechanics, psychophysics, work physiology, and engineering safety to common problems faced by safety professionals in work and systems design. Emphasis is on design and analysis of occupational systems and consumer products.
Prerequisite: MATH 1314 or MATH 1316 and Junior standing.

ETSM 4345. Industrial Fire Safety. 3 Hours.
Students learn to incorporate fire hazard awareness and protection into safety management plans. Topics may include fire prevention methods, extinguishment, detection, hazards, fire behavior, fire causes, types of building materials, structural features, flame spread, room/building occupancy, fire load, and inspection techniques.
Prerequisite: CHEM 1411 and PHYS 1301.

ETSM 4369. Special Topic. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new safety management topics and concepts in a course setting. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: ETEC 1010 and Junior Standing.

ETSM 4375. Safety Hazard Mitigation. 3 Hours.
Students learn concepts, methods, and techniques involved in creating industrial and manufacturing facilities more resilient to the impacts of hazards. The students are provided with the tools to develop safety programs emergency managers can use to reduce the impact of different types of hazards. Emphasis is placed on mitigation, preparedness, resilience, measurement, and vulnerability. Topics may include risk management and communication, practical approaches, and assessment frameworks.
Prerequisite: ETSM 3371.

ETSM 4377. Environmental Safety Management. 3 Hours.
Students examine the principles of effective environmental safety management systems. Laws and regulations that protect our environment and human health are studied. Topics may include hazard communication (HAZCOM) and hazardous waste operations (HAZWOPER). Students may also examine the roles of the Occupational Safety and Health Administration (OSHA), the U.S. Department of Transportation (DOT), and the Environmental Protection Agency (EPA).
Prerequisite: ETSM 3372.

ETSM 4379. Emergency Management & Planning. 3 Hours.
Students learn a hands-on approach to emergency management and contingency planning in different work environments. Emphasis will be placed on key partnerships among all levels of government as well as those among the public and private industrial sectors. The topics may include physical and chemical hazards and biohazards, personal training, holistic planning, medical surveillance, personal protective clothing and equipment, hazard and risk reduction strategies, decontamination, related scientific data and information management.
Prerequisite: ETSM 3371.

Saxophone (SAXO)

SAXO 1101. Secondary Performances-Saxophone. 1 Hour.
Students study techniques and musicality related to saxophone in weekly individualized private instruction. Students admitted as a Saxophone primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

SAXO 1201. Individual Performances-Saxophone. 2 Hours.
The course consists of individualized private instruction on the saxophone. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

SAXO 3201. Individual Performances-Saxophone. 2 Hours.
The course consists of advanced individualized private instruction on the saxophone. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

SAXO 3202. Applied Saxophone with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the saxophone. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital. Prerequisite Students must have instructor permission.

Secondary Education (CISE)

CISE 3383. Planning Instruction With Technology Integration. 3 Hours.
This course is designed to provide teachers who seek certification at the secondary level (grades 7-12) with an introductory overview of the teacher education program, with an introduction into instructional issues and teaching models, and with an introduction into how technology impacts education both in terms of increasing teacher productivity and in terms of integrating technology into instruction.
Prerequisite: Junior status.

CISE 3384. The Teaching Profession. 3 Hours.
This course is for those seeking 7-12 certification and is an introduction to the concept of teaching as a professional career that makes a difference in the lives of children, youth, and their families. The course will introduce students to lesson planning, writing clear learning objectives, instructional strategies, formative and summative assessment methods, classroom management, professional ethics, and the use of technology as an instructional tool.
Prerequisite: 32 Hours.

CISE 4088. Special Topics in Secondary Education. 3 Hours.
This course will examine special topics in the field of Secondary Education. Variable Credit (1-3.)

CISE 4089. Independent Study in Secondary Education. 1-3 Hours.
This course is designed to permit individual students to study specific areas of interest and need. Course Equivalents: CISE 4375
Prerequisite: Departmental approval.

CISE 4363. Teaching Mathematics in Secondary Schools. 3 Hours.
Students will learn the methods and activities used to actively engage secondary school students in the construction of mathematical concepts. Topics may include the development of instructional methods and materials for the teaching of mathematics in the secondary classroom.
Prerequisite: CISE 3384.

CISE 4364. Methods of Teaching in Secondary Schools. 3 Hours.
This course focuses on developing strategies that are effective in secondary schools. Candidates use the TEKS to develop objectives and plan effective instruction. Extensive field experience required. Co-requisite: CISE 4379 Admission to Methods.
Prerequisite: CISE 4380 and READ 4378.

CISE 4374. Human Growth and Learning. 3 Hours.
This course examines growth and learning primarily in secondary environments. Major theories of teaching-learning processes are studied. Human development related to education is emphasized. Special attention is paid to diversity in the public school environment. Required field experience in 8-12 public schools. This course is taken as part of the Secondary Methods Block for 7-12 certification. Course Equivalents: CISE 3374
Prerequisite: Admission to Educator Preparation Program and Departmental Approval.

CISE 4376. Developing a Professional Teacher Portfolio. 3 Hours.
The purpose of this course is to provide the prospective secondary teacher the opportunity to organize artifacts on the development, exploration, integration, application, and teaching of content knowledge, pedagogical knowledge and skill development in the development of a professional teacher portfolio.
Prerequisite: Concurrent enrollment in student teaching and departmental approval.

CISE 4377. Assessment of Student Learning In Secondary Grades. 3 Hours.
This course is designed to provide the prospective secondary teacher the opportunity to construct and use teacher made tests and performance assessments that support the alignment process. Students will study various facets and strategies relating to assessment. Co-requisite: CISE 4364 Admission to Educator Prep Prg (TCHR).
Prerequisite: READ 4378.

CISE 4379. Differentiated Pedagogy. 3 Hours.
In this course, teacher candidates focus on differentiation of curriculum and pedagogy that addresses student differences in order to promote academic rigor for all learners. Co-requisite CISE 4364; Admission to Educator Prep Prg (TCHR)
Prerequisite: CISE 3384 and READ 4378.

CISE 4380. Responsibilities of the Professional Educator. 3 Hours.
This course is designed to assist future teachers in understanding the structure, organization, and management of public schools at the national, state, and local levels. Course content will include a study of the needs of the special learner and students from various cultures.
Prerequisite: 3384.

CISE 4394. Creating an Environment For Learning-Secondary Education. 3 Hours.
(The Companion Course for Secondary and All-Level Student Teaching) This course provides a survey of classroom management and discipline approaches appropriate in a public school setting. Candidates will explore multiple components that produce a well managed classroom. Candidates will create a classroom management plan that will be a functional model for their classrooms. ; Admission to Educator Preparation Program.
Prerequisite: CISE 3384.

CISE 4396. Student Teaching - Secondary Classroom. 3 Hours.
The student is assigned to teach in secondary classrooms (grades 8-12) for a placement totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements. As an example, a student will have one placement in a lower grade such as 7th grade and the second placement in a higher level such as high school.
Prerequisite: Senior status and admission to student teaching.

CISE 4397. Student Teaching - Secondary Classroom. 3 Hours.
The student is assigned to teach in secondary classrooms (grades 8-12) for a placement totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements.
Prerequisite: Senior status and admission to student teaching.

Security Studies (SCST)

SCST 2363. Introduction to Homeland Security. 3 Hours.
This introductory course is designed to familiarize students with the field of security studies. Topics include Surveys, threats, and challenges from terrorist attacks, to pandemics to climate change.

SCST 2364. Homeland Security Research Methods. 3 Hours.
Students gain knowledge about research design and methodology. Students develop the ability to analyze and critically evaluate data, ideas, arguments, and policy. Students also hone critical thinking skills and enhance their ability to be effective consumers of data.

SCST 2365. Introduction to Emergency Management. 3 Hours.
Students study the evolution of emergency management in the United States from early community-based response practices to the current robust national system focused on risk analysis, communications, risk prevention and mitigation, and social and economic recovery. Students examine benchmark policies, regulations, and directives that form the basis of the emergency management field. Students engage in case study research and gain exposure to current and emerging trends in emergency management domestically and internationally.

SCST 2366. Introduction to Cybersecurity. 3 Hours.
Students examine the problem of cybersecurity from a homeland security perspective. Students explore the diversity of threats and security measures in cyberspace from a non-technical perspective and with a focus on laws, strategies, and policies. Security issues, from crime to espionage to cyberwar, will be considered on both the micro and macro-level.

SCST 2368. Transportation Security. 3 Hours.
Students examine a wide range of facets that comprise the field of transportation security. As part of this course students assess the capabilities and vulnerabilities of the transportation network as well as explore the agencies and governance issues impacting transportation security. Students gain an understanding of the various transportation systems (road, rail, maritime, and aviation). Students also explore the layers of security and understanding the role of government and the private sector in securing the transportation system.

SCST 3380. Law and Ethics in Homeland Security. 3 Hours.
Students examine key legal and ethical challenges facing the homeland security enterprise. Constitutional questions relating to the separation of powers at the federal level, questions of federalism, the balance between security and civil liberties, and the impact of technology (drones, cameras, facial recognition, etc.) on homeland security law and ethics are also analyzed.

SCST 3381. Climate and Security. 3 Hours.
Students explore national security and homeland security challenges associated with global climate change. Students critically examine the role of governments, the media, the scientific community, and other institutions in the conceptualization and mitigation of the multiple consequences of climate-based risks. Topics covered include the impact of mass urbanization, water conflicts, and the effects of climate change. Students also explore the impact of climate change on water security, emerging diseases, and natural disasters.

SCST 3383. Energy Security. 3 Hours.
Students study the architecture of the energy sector, one of the Department of Homeland Security's sixteen designated critical infrastructure sectors. Students examine the main energy sector nodes and their interdependencies with other sectors, evaluate insider and outsider threats and hazards, and apply proper risk assessment models to reduce the energy sector's vulnerability. Students become acquainted with alternative energy sources, renewable technologies, and best management practices of energy resources for a sustainable future.

SCST 3384. Water Security. 3 Hours.
Students explore water as a national security and homeland security issue. Topics covered include: mass migrations and civil wars caused by climate change and droughts, floods, extreme weather events, transboundary water issues, water's interdependencies with other critical infrastucture sectors, water governance systems including criminal governance in ungoverned spaces, centralized state and local non-governmental organization (NGO) network governance systems, sustainable water development, and the security implications of an aging water infrastructure.

SCST 3385. Bioterrorism and Biowarfare Preparedness and Response. 3 Hours.
Students investigate the threat posed to the United States by bioterrorism. Issues include analysis of top pathogens of concern, principles of disease weaponization, and dual-use technology, and other bioterrorism related topics.

SCST 3386. Health Access and Homeland Security. 3 Hours.
Students examine the connection between health access and US homeland security. Topics include how physical and financial barriers to health access reduce overall health security and pandemic preparedness, the impacts of state and federal-level healthcare policy on American health security, and the relationship between healthcare infrastructure preparedness and resilience to pandemic response.

SCST 3393. Public Health in Homeland Security. 3 Hours.
Students explore those aspects of the public health discipline and profession that fall under the homeland security umbrella. Students examine the nature of communicable diseases and pandemics, the role of syndromic surveillance, quarantine laws and policies, and the role of international, federal, state, and local agencies in coping with pandemics. Students also explore cases of major pandemics and the lessons learned from these events and their respective outcomes.

SCST 3394. Global Terrorism & Homeland Security. 3 Hours.
This course provides an overview of the threat of terrorism as it relates to U.S. homeland security. Using a multi-dimensional approach that draws from international relations, law, and police strategies, the course emphasizes research and analysis. Students also examine international strategies aimed at reducing terrorist incidents.
Prerequisite: SCST 2363 recommended.

SCST 4076. Independent Studies in Security Studies. 1-3 Hours.
This course is designed to give students flexibility to pursue study of a topic under the supervision of a faculty member where the topic will be studies more deeply than in a traditional course or where there are no available courses on the topic. Variable Credit (1-3).
Prerequisite: Approval of the Department Chair and the instructor directing the readings.

SCST 4301. Chemical and Energy Sector Resilience. 3 Hours.
This course will focus on specific operational issues pertaining to the chemical and energy critical infrastructure sectors, including specific vulnerabilities and unique features and stakeholders that have an impact on maintaining resilient systems and the maintenance of continuity of operations. The course will provide security professionals in the chemical and energy sectors, and those planning careers in these areas, with the tools to understand threats, conduct assessments, engage in planning and manage crises.

SCST 4302. Healthcare Sector Resilience. 3 Hours.
This course focuses on specific operational issues pertaining to the healthcare critical infrastructure sector, including specific vulnerabilities and unique features and stakeholders that have an impact on maintaining resilient healthcare systems that can provide an appropriate level of care for patients. The course provides security professionals in the healthcare sector, and those planning careers in this area, with the tools to understand threats, conduct assessments, engage in planning and manage crises.

SCST 4303. Transportation Sector Resilience. 3 Hours.
Students will explore operational issues pertaining to the transportation critical infrastructure sector. This includes identifying specific vulnerabilities and unique features and stakeholders that have an impact on maintaining resilient transportation networks and continuity of operations. Students will learn the tools to understand threats, conduct assessments, engage in planning and manage crises to develop careers as security professionals in the transportation sector.

SCST 4304. Global Health Security. 3 Hours.
Students analyze the challenges of infectious disease control globally, as well as key elements of global health security. Topics include types of diseases and disease threats, disease transmission, social and economic consequences of disease, and the homeland security implications of pandemics.

SCST 4305. Binational Health Challenges. 3 Hours.
Students examine critical binational health challenges with an emphasis on the United States-Mexico border. Issues include analysis of binational disease surveillance and prevention programs, balancing state sovereignty with disease prevention, and binational health collaborations between the United States and Mexico.

SCST 4362. United States Security Post 9/11. 3 Hours.
This course provides an overview of the evolution of issues, processes, and policies related to U.S. security and safety that evolved after the cold war era. Specifically, the course will address the spectrum of security threats and safety hazards that have emerged post 9/11 and that continue to emerge, such as Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE), pandemic, environmental, and cybersecurity as well as the policies and processes instituted to address them.

SCST 4363. Homeland Security Intelligence. 3 Hours.
This course examines the development of U.S. intelligence studies and explores the role of intelligence in supporting the formulation of homeland security policies. It positions intelligence within specific homeland security missions of Protect, Respond, and Recover, and among actors who support the Homeland Security Enterprise (HSE) under those missions. It exposes learners to complex government-private sector policies, plans, partnerships, processes, procedures, systems, and technologies for intelligence gathering as well as information sharing.
Prerequisite: Junior Standing.

SCST 4364. Homeland Security and Emergency Management. 3 Hours.
This course familiarizes students with processes, agencies, and individuals involved in the national preparedness and response to high consequence events. Students examine homeland security strategies, emergency and disaster management principles, and human, physical, and operational resilience concepts. Students are exposed to approaches to collaboration, communication, and coordination when planning for, mitigating against, responding to, and recovering from the complex safety and security problems of the twenty-first century (e.g., extreme weather, environmental incidents, health pandemics, terrorism).
Prerequisite: Junior Standing.

SCST 4365. Border Security. 3 Hours.
This course covers security issues related to U.S. air, land, subterranean, and maritime borders. The course covers an interdisciplinary range of topics including immigration, drug trafficking, contraband smuggling (tariff evasion), potential for terror plots involving the border, the political realities of border fence construction, state surveillance in the border region, concepts of borderlands, civil liberties, and issues related to the border. The course introduces students to the various agencies that cooperate to provide border security and to the foreign relations issues that arise around nation-state borders.
Prerequisite: Junior Standing.

SCST 4366. Drug Policy and Security. 3 Hours.
This course examines the problem of illegal drugs from a security perspective. Because drug profits have been identified as a major funding source of violent criminal actors and terrorist networks, students in this course explore the vertical integration of the drug trade and examine its relationship to homeland security.
Prerequisite: Junior Standing.

SCST 4367. Critical Infrastructure Security. 3 Hours.
Globalization has made society increasingly reliant on technology for every facet of human endeavors. As a result of the reliance on interdependent technology society has become more vulnerable to major disruptions. This course familiarizes students with the concept of Critical Infrastructure (CI), the risks it faces, and how to protect against them. Students explore opportunities associated with infrastructure-related public-private partnerships, information sharing, risk analysis and prioritization, risk mitigation, performance metrics, program management, incident management, and investing for the future.
Prerequisite: Junior Standing.

SCST 4368. Technology and Homeland Security. 3 Hours.
Students explore the impact of a range of technologies on homeland security decision-making. Students analyze technologies designed to provide greater security (such as CCTV - closed circuit television - and facial recognition technologies and sensors, security technologies, and computer networks). Students also examine technologically-based threats including artificial intelligence, 3D and 4D printing, nanotechnology, and synthetic biology.

SCST 4370. Intelligence Analysis. 3 Hours.
Students explore intelligence analysis and apply structured analytic techniques to eliminate cognitive biases in their writing and analysis. Topics covered include: post-mortem analysis, devil's advocacy, target-centric and network analysis, visualization techniques, avoiding politicization of intelligence, Delphi method, and Red Hat analysis. Students will apply these techniques to the analyses of real world national and homeland security case studies both individually and collaboratively.
Prerequisite: SCST 4363 Homeland Security Intelligence.

SCST 4373. Homeland Defense and Civil Support. 3 Hours.
Students examine the role of the U.S. military in homeland security and homeland defense. Students gain knowledge of the role of the federal military and National Guard forces in countering terrorism as well as particular consideration of the Coast Guard, North American Aerospace Command and U.S. Northern Command in defense support to civil authorities and in the provision of homeland defense.

SCST 4376. Security Studies Internship. 3 Hours.
Students are placed in an approved homeland security or emergency management setting to apply academic learning in practical situations. See the College's Internship Coordinator for details about this program.
Prerequisite: Department approval.

SCST 4377. Special Topics in Security Studies. 3 Hours.
This course offers students the opportunities for structured coursework on emergent issues or other topics for which courses do not exist in the course catalog.

SCST 4379. Comparative Homeland Security. 3 Hours.
Students explore homeland security strategies and policies pursued by other countries. Students study other countries' experiences in coping with homeland security-related issues (such as counterterrorism, public health, and emergency management). Students also gain an understanding of the framework, approaches, restrictions, and powers under which other countries operate, as well as an understanding of the international dimension of homeland security threats.

SCST 4386. Crisis and Risk Communications in HS. 3 Hours.
Students explore the role of strategic communications in homeland security with a focus on crisis communications. Students will study theories of crises, principles of crisis communications, reputation management, ethical considerations, and other topics. Students will analyze the successes and failures of various crisis communication strategies in the context of case studies of selected disasters.

SCST 4387. Strategic Planning for Homeland Sec. 3 Hours.
Students examine characteristics of strategic planning within the Homeland Security enterprise in order to understand planning challenges and opportunities within it. Students will learn how to engage in environmental scanning evaluate and measure Homeland Security plans and programs, and gain experience in Homeland Security policy planning.

Sociology (SOCI)

SOCI 1301. Introduction to Sociology. 3 Hours. [TCCN: SOCI 1301]
Students are introduced to the discipline with a focus on the concepts and principles used in the study of group life, social institutions and social processes. This course is a prerequisite to many other courses taught in the department.

SOCI 2319. Introduction To Ethnic Studies. 3 Hours. [TCCN: SOCI 2319]
Students investigate the field and problems of ethnic studies from an interdisciplinary perspective. Major considerations of the entire Ethnic Studies field will be defined and analyzed, including the topics of prejudice and discrimination. Students are strongly urged to take this course before attempting other ethnic studies courses. Course Equivalents: SOCI 2320 .

SOCI 2320. Introduction to Ethnic Studies-Honors. 3 Hours.
HONORS COURSEStudents investigate the field and problems of Ethnic Studies from an interdisciplinary perspective. Major considerations of the entire Ethnic Studies field will be defined and analyzed, including the topics of prejudice and discrimination. Students are strongly urged to take this course before attempting other Ethnic Studies courses. Course Equivalents: SOCI 3219 .

SOCI 2366. Sociology Of Sport. 3 Hours.
Students apply the social science mode of inquiry to study the sociocultural characteristics of sport. Topics may include the examination of the cultural, economic, political and structural factors (i.e., gender, race, etc.), which form salient aspects of today's sport activities at various levels. Focus is placed on the characteristics of sports and how these characteristics both reflect and have impact upon the social climate of a given society.

SOCI 2399. Writing in Sociology. 3 Hours.
Students learn the writing skills needed for advanced courses in Sociology. Topics may include: the structure and style in writing; citations and American Sociological Association stylebook; how to conduct library and internet research as a basis for research writing; and specialized techniques for quantitative research papers, qualitative research papers, book reviews, compare and contrast papers and essay exams.
Prerequisite: SOCI 1301.

SOCI 3305. Introduction to Community Leadership. 3 Hours.
Students learn the definitions, types, and theories of community. Topics may include how to conduct basic community needs assessment, strengthen communication skills, and explore resource mobilization strategies through applied community experiences. Community leaders facilitate conversations about leadership techniques and challenges. Course Equivalents: SOCI 2350 .

SOCI 3324. Social Inequality. 3 Hours.
Students learn the three primary resources of social inequality: class, status and power. Topics may include the way birth-ascribed statuses such as age, sex and race interact with class, status and power stratification systems. Special attention is also given to the popular and scientific explanations of inequality, especially with respect to the high and low ends of the distribution of income and wealth.

SOCI 3325. Gender And Inequality. 3 Hours.
Students learn about the influence of gender on socialization and placement in class, status and power stratification systems. Topics may include the analysis of institutional discrimination against women in major social institutions such as religion, education, family, heath care and work, and an examination of the feminization of poverty.
Prerequisite: SOCI 1301 or SOCI 2319 .

SOCI 3327. Sociology of Popular Culture. 3 Hours.
Students engage in a critical analysis of popular culture in its cross-cultural and historical perspectives with the main focus on the role and character of popular culture in American society. Topic may include the different forms and aspects of popular culture in their dynamic relation to the cultural "mainstream", to everyday life of Americans, and to the core values of American society.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3335. Food and Society. 3 Hours.
Students examine food from a sociological perspective. Topics may include the production, distribution, and consumption of food in today's globalized society.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3341. Marriage And The Family. 3 Hours. [TCCN: SOCI 2301]
Students engage in a sociological examination of marriage and family life. Topics may include the problems of courtship, mate selection, and marriage adjustment in modern American society.

SOCI 3344. Sociology of Education. 3 Hours.
Students examine the relationship between the educational system and society. Topics may include education and inequality, the relationship between education and different social institutions, educational experiences and the life course, and schooling experiences.

SOCI 3345. Social Statistics. 3 Hours.
Students examine the basic concepts, techniques and data necessary for an adequate understanding of social structure and change. Topics may include observational, experimental, sample survey, and demographic analysis. Course Equivalents: SOCI 3443
Prerequisite: SOCI 1301.

SOCI 3354. Sociology of the Life Course. 3 Hours.
Students examine the sociological dimensions of aging. Topics may include the various sociological theories and methods used in the study of aging, discrimination against the young and the old, the relationship between life-cycle changes and changes in placement in class and status, and the impact of population aging on retirement patterns, income security, health care, and long-term care.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3355. Racial and Ethnic Inequality. 3 Hours.
Students examine racial and ethnic stratification in its various dimensions. Topics may include the placement in the class, status and power stratification systems on the basis of birth ascribed and socially defined race/ethnicity, and the ideologies which serve to rationalize these inequalities. Other topics may address the study of institutional discrimination and racial/ethnic stratification in major social institutions such as education, health care, religion and work.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3365. Sociology Of Health & Illness. 3 Hours.
Students investigate the processes by which persons assume, act, and relinquish the sick role. Topics may include the interrelationships between patient and family, doctors, and hospital; the quality and quantity of health services distributed by class and race; and the problems posed by mental illness, such as diagnosis, treatment, and involuntary commitment.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3370. Research Methods in Sociology. 3 Hours.
Students learn the logic and character of scientific and alternative means of social inquiry. Topics may include the function of observation, concept formation, proposition arrangement and testing of theory as components of the scientific process in sociology. Course Equivalents: SOCI 4340
Prerequisite: SOCI 1301.

SOCI 3371. Qualitative Methods. 3 Hours.
Students examine the principles and practices of qualitative research. Topics include qualitative techniques of design, data collection and organization, analyses, and interpretation. Students gain experience conducting and assessing qualitative research on social issues.
Prerequisite: SOCI 1301 or SOCI 2319; and SOCI 2399.

SOCI 3372. Demographic Techniques. 3 Hours.
Students examine demography concepts like population composition and change, mortality, fertility, migration, population distribution, population policy, and the relationship between population and environment. Students develop and apply the techniques of demographic analysis including data management, analysis, and visualization including the development of population pyramids, population projections and life tables.
Prerequisite: SOCI 1301 or SOCI 2319; and SOCI 2399.

SOCI 3373. Social Program Evaluation. 3 Hours.
Students will evaluate social programs in a variety of agencies, institutions, and settings. Students gain an overview of the field of program evaluation and will be exposed to hands-on experience through practical case study. Specific topics may include core knowledge, theories, and approaches to program evaluation. Students will also learn technical skills related to conducting program evaluation.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3376. Rural And Urban Sociology. 3 Hours.
Students examines the human community in its ecological, cultural, and associational aspects. Topics may include the folk, rural, and urban community considered from the standpoint of various sociological perspectives. Special attention is given to social change, including decision-making as it affects local life.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3377. Community Planning and Development. 3 Hours.
Students examine the practice of community planning and development from a variety of theoretical and methodological perspectives. Topics may include sociological theories used to examine communities, approaches used by federal and state agency personnel, municipal leaders, community, and economic practitioners to facilitate community planning and development, and the social, political and economic forces shaping communities. Students gain experience using community development frameworks and tools.
Prerequisite: SOCI 1301 or SOCI 2319; and SOCI 2399.

SOCI 3381. Cultural Anthropology. 3 Hours.
Students investigate the cultural and social organization of preliterate societies. Topics may include marriage, property, religion, magic, and tribal control.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3383. Sociology of Latin America. 3 Hours.
Students apply sociological concepts in order to analyze contemporary social issues in the context of Latin America. Topics may include social inequality, political repression, borderlands, socio-environmental struggles, indigenous politics, and social movements in Latin America.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3384. Economy And Society. 3 Hours.
Students investigate the relationship between economy and society. Topics may include employment opportunities for college graduates; blue collar, white collar, and professional lifestyles; origins of industrial society and effects on social stratification, minorities, and the family. Students may learn about workers' control of industry, relationships between industry and government, the sociology of labor relations and personnel management.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3392. Social Movements. 3 Hours.
Students examines the characteristics of social movements useful to the sociological study and interpretations of major social trends involving both social and cultural change in community and society. The theoretical frameworks for understanding the causes, types, and theories of social change in contemporary society are given special attention.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3399. Gulf Field Studies. 3 Hours.
Students visit sites across the area to discuss energy development, historically underserved neighborhoods, street art and architecture, urban and rural development, and communities impacted by natural disasters and environmental challenges. As part of site visits, students will build relationships with community leaders, government officials, private sector companies, and non-profits to explore the complex issues facing the Houston metro area, Southeast Texas, and the larger Gulf region.
Prerequisite: GEOG 3398 or POLS 3398: Junior standing and approval of the instructor.

SOCI 4075. Readings in Sociology. 1-3 Hours.
Advanced students engage in independent study on a special topic approved by the chair of the department and the instructor directing the course. Variable Credit (1-3). Course Equivalents: SOCI 4375 .

SOCI 4330. Sociology of Immigration. 3 Hours.
Students develop an in-depth understanding of the theoretical tools that sociologists use for studying international migration. Topics may include the sociohistorical context of modern-day migration and the institutional forces that drive it; the social and political processes by which legality and illegality are constructed; and the consequences for immigrants and communities. Consideration is also given as to how inequalities based on race, class, and gender shape immigrants' experiences and ability to integrate into their receiving communities and the implications of these processes for social change.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4334. Sociology Of Disaster. 3 Hours.
Students investigate how culture, inequality, and social structure and processes shape how people face disasters, how they respond and the ways in which they recover or fail to do so. Topics may include how disasters may lead to rapid social change and the foundations of sociology of disaster theory.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4337. Environment And Society. 3 Hours.
Students examine the environment as a social and cultural issue. Topics may include an overview of the field of environmental sociology, traditional sociological perspectives on environmental issues, paradigmatic implications of environmental sociology, the development of environmental movement, the rise of environmental deterioration, public attitudes toward environmental issues, national environmental policies, and social impact assessment.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4338. Social Gerontology. 3 Hours.
Students examine the current controversies in the field of Social Gerontology. Topics may include the various sociological theories and methods employed in the study of social gerontology, along with the biological and physiological changes related to aging. This course also explores the trends in the discipline of social gerontology, the impact of population aging on retirement patterns, income security, health care, long term care, and the politics of aging.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4339. Development & Sustainability. 3 Hours.
Students examine development, globalization, and sustainability. Topics may include the form, objectives and ramifications of development and globalization, socio-economic relations between countries, and the effects of development and globalization on people, communities, and the environment. Course Equivalents: SOCI 3336
Prerequisite: SOCI 1301 or SOCI 2319 and Junior Standing.

SOCI 4344. Sociological Theory. 3 Hours.
Students engage in a historical survey of the development of sociological thought. Emphasis is placed upon the growth of Sociology as a discipline, major areas of interest and major contributors.
Prerequisite: SOCI 1301.

SOCI 4379. Internship In Applied Sociolgy. 3 Hours.
Students engage in an in-depth exploration of sociological issues in an applied setting. Students are required to complete a minimum of 120 hours in an approved host organization, plus complete appropriate academic requirements. Internships are unpaid. Internships are unpaid. Fall and Spring only.

Prerequisite: Junior or senior Sociology majors, minimum GPA 3.0 or through special petition.

SOCI 4399. Senior Seminar In Sociology. 3 Hours.
Students engage in a capstone project which addresses special areas or issues in Sociology. Topics may include the career needs of Sociology majors and/or prospective teachers of Sociology.
Prerequisite: Advanced standing in Sociology and SOCI 1301 and SOCI 2399.

Spanish (SPAN)

SPAN 1411. Elementary Spanish I. 4 Hours. [TCCN: SPAN 1411]
Students who have had no previous instruction in Spanish develop Spanish pronunciation, vocabulary, and basic language codes stressing an oral approach to the language with special emphasis on conversation and oral drill. A weekly one-hour language laboratory period is required. Competent speakers of Spanish or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in Spanish. Native Spanish speakers should take the CLEP for placement. Grade of C or better required in SPAN 1411 in order to continue to SPAN 1412. Native Spanish speakers should take the CLEP or register for SPAN 2312.
Prerequisite: For non-native speakers of Spanish.

SPAN 1412. Elementary Spanish II. 4 Hours. [TCCN: SPAN 1412]
This course is a continuation of SPAN 1411. Students discuss and drill language codes with more complexity. Stress is placed on listening and speaking skills. A weekly one-hour language laboratory period is required. Competent speakers of Spanish or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in Spanish. For non-native speakers of Spanish. Native Spanish speakers should take the CLEP for placement.
Prerequisite: Grade of C or better in SPAN 1411 or equivalent.

SPAN 2311. Intermediate Spanish I. 3 Hours. [TCCN: SPAN 2311]
Students use materials of medium difficulty as a basis for reading, listening comprehension, and oral communication. Competent speakers of Spanish or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411 and SPAN 1412 or equivalent.

SPAN 2312. Intermediate Spanish II. 3 Hours. [TCCN: SPAN 2312]
Continuation of SPAN 2311. Students focus on practical needs for communication. Competent speakers of Spanish or those with considerable knowledge of the language should take the CLEP prior to registering. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, and SPAN 2311 or equivalent.

SPAN 2350. Spanish for Heritage Speakers. 3 Hours.
Designed for students with a Spanish language and/or cultural background, the course builds on existing Spanish language skills to develop literacy through intensive formal and academic reading and writing which emphasizes the Latinx experience in the U.S. and throughout the Spanish-speaking world. Topics include spelling, verb tenses, registers, and transfers from English. This course is taught predominantly in Spanish.
Prerequisite: Permission of Department Chair.

SPAN 3330. Principles of Health Care Interpretation. 3 Hours.
Students apply linguistic and cultural knowledge to accurately interpret Spanish and English oral communication. Students learn essential skills and demonstrate professional standards for effective interpreting in health care settings. This course is taught predominantly in Spanish.
Prerequisite: Permission of Department Chair.

SPAN 3340. Principles of Health Care Translation. 3 Hours.
Students apply linguistic and cultural knowledge to translate Spanish and English written communication products that are common in a variety of health care settings. Students develop reading and writing techniques for accurate and appropriate written translations. This course is taught predominantly in Spanish.
Prerequisite: Permission of Department Chair.

SPAN 3361. Spanish Grammar & Composition. 3 Hours.
Students study the grammatical characteristics of the Spanish language with emphasis on developing the ability to write in Spanish. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3362. Survey Of Spanish Literature I. 3 Hours.
Students study the development of the literature of Spain from the Middle Ages to the 18th century. Topics include various eras, genres, and authors. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 or equivalent.

SPAN 3363. Survey of Spanish Literature II. 3 Hours.
Students examine the literature of Spain beginning with the eighteenth century to the present. Selections from drama, poetry, and narrative will be read, discussed in Spanish, and analyzed in written reports. Instruction is in Spanish.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3367. Principles Of Spanish Linguistics. 3 Hours.
Students study descriptive, applied, and contrastive linguistics. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3368. Conversational Spanish I. 3 Hours.
Students focus on extemporaneous speaking and conversation. Topics may include reading materials from Spanish speaking countries as a basis for conversation and composition. Competent speakers of Spanish or those with considerable knowledge of the language should seek instructor permission to take the course. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3369. Conversational Spanish II. 3 Hours.
Students focus on extemporaneous speaking and conversation. Topics may include reading materials from Spanish speaking countries as a basis for conversation and composition. Competent speakers of Spanish or those with considerable knowledge of the language should seek instructor permission to take the course. Instruction is in Spanish. Offered only during Study Abroad or Study Away programs.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3374. Introduction to Literatures of Spanish America. 3 Hours.
Students study the texts of Spanish-American writers from the European colonization of the Americas to the present with emphasis given to the historical, cultural, and political factors which influenced their writing. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3375. Genres in Spanish American Literature. 3 Hours.
Students study themes and techniques of outstanding Spanish-American poets, dramatists or novelists. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3380. Spanish Culture & Civilization. 3 Hours.
Students overview the culture and civilization of Spain. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3381. Spanish Literature for Children. 3 Hours.
Students discuss ways to teach Spanish and Spanish-American literature for children, its rhetorical and narrative characteristics, its development, and its symbolism in relation to the needs of the child and the culture. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 3385. Spanish American Culture and Civilization. 3 Hours.
Students study the culture and civilization of the Spanish-speaking areas of the Americas. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 4051. Applied Health Care Interpretation and Translation. 1-3 Hours.
Students practice hands-on interpretation and translation to prepare for certification exams. Students test their knowledge of standards of practice and ethics, regulations, and other discipline-specific information. Students prepare a plan for certification and future professional development. This course is taught predominantly in Spanish. The course may be repeated for credit as content varies. Variable Credit (1 to 3).
Prerequisite: SPAN 3330 and SPAN 3340, or equivalent.

SPAN 4075. Individual Readings in Spanish. 1-6 Hours.
Individual students take this course if they need to study a particular era, genre, or author. Enrollment in this course is restricted and must be granted by department chair. The course may be repeated for credit as content varies. Variable Credit (1 to 6). Course Equivalents: SPAN 4375
Prerequisite: Consent of instructor and department chair.

SPAN 4361. Advanced Spanish Grammar. 3 Hours.
Students conduct an in-depth study of the usage of the Spanish language as it relates to creative writing and scholarly reports. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 4362. History of Spanish Language. 3 Hours.
Students outline the history of the Spanish language over the last two millennia, focusing on the formal development of its phonology, morphology, syntax, and semantics. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 and SPAN 3367 or equivalent.

SPAN 4364. Spanish American Prose. 3 Hours.
Students study selected authors, short stories, essays, or novels. Emphasis on themes, techniques, and current literary themes. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 4365. Pablo Picasso & Spanish Art. 3 Hours.
Students examine the interplay between Spanish culture and Spanish art using Pablo Picasso as a central unifying figure in order to relate past, present, and future aspects of Spanish heritage. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 4366. Spanish Phonetics. 3 Hours.
Students discuss the scientific study of the sounds of Spanish. The two essential goals of the course are to discuss the ways in which English and Spanish sounds differ, and to help improve pronunciation of the Spanish language. This course is intended for student with advanced Standing in Spanish. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411,SPAN 1412, SPAN 2311, SPAN 2312 and SPAN 3367 or equivalent.

SPAN 4370. Seminar in Selected Topics Literacy, Language, and Civilization. 3 Hours.
Students conduct an in-depth study of a selected topic. The topic to be explored will change from year to year. This course may be repeated for credit as the content varies. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 4371. Spanish for Criminal Justice. 3 Hours.
Students study Spanish and Spanish-related issues and topics for Criminal Justice, criminology, law enforcement, and Sociology. Instruction is in Spanish. Course Equivalents: SPAN 3371
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 4372. Spanish for Business. 3 Hours.
Students study business terminology in Spanish related to banking, accounting, international trade, marketing, management, and finance and of cultural aspects of Latin America and Spain, with practice in speaking, reading, and translating business Spanish. Instruction is in Spanish. Course Equivalents: SPAN 3370
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent.

SPAN 4373. Spanish for Mass Communication. 3 Hours.
Students examine the Spanish language as it relates to radio, television, newspaper, and other media sources in the context of Hispanic culture. Students survey the history of journalistic genres in Spain, Latin America, and the United States. Students build language proficiency using a contextualized, content-based approach. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312, and SPAN 3361 or equivalent.

SPAN 4374. Spanish for Health Professions. 3 Hours.
Students develop Spanish-language ability for professionals in the health care industry. The close relationship between language and culture will also foster the heightened awareness of ethnic, gender, and multicultural consciousness. Instruction is in Spanish.
Prerequisite: Grade of C or better in SPAN 1411, SPAN 1412, SPAN 2311, and SPAN 2312 or equivalent, or instructor's approval.

Special Education (SPED)

SPED 2301. Introduction to Exceptionality. 3 Hours.
Issues and trends in special education are examined. An overview of the characteristics of persons with disabilities is also presented. This course consists of essential issues and theories relating to special education. Special emphasis is placed upon multi-cultural and legal issues in the field of special education.

SPED 3301. Learning and Instruction for Children with Disabilities. 3 Hours.
This course provides pre-service teachers with instructional strategies for working with students who are at risk or identified with a disability. Pre-service teachers will demonstrate their knowledge of best practices by analyzing and critiquing various texts (including multimedia) and creating appropriate learning tasks for students at risk or with disabilities. The course will also provide opportunities for pre-service teachers to generate modifications or accommodations to curriculum and instruction to meet the individual needs of learners.

SPED 3302. Emotional/Behavioral Disorders. 3 Hours.
This course provides a study of the defining characteristics, systems of assessment and classification, theories of causality, and interventions for students with Emotional and Behavioral Disorders.
Prerequisite: Sophomore, junior or senior classification and SPED 2301.

SPED 3303. Supporting Social Success. 3 Hours.
This course addresses a variety of instructional techniques that can be utilized to change, maintain, increase, or decrease individual and group behaviors. Proactive behavioral intervention techniques from a variety of theoretical models are examined. Behavioral change strategies emphasize functional assessment principles, positive behavioral supports, and self-management. The basic principles, tools, and techniques of communicating with parents of children with disabilities and implementing parent education programs also are addressed.
Prerequisite: SPED 2301.

SPED 3304. Study of Learning and Learning Disabilities. 3 Hours.
Learning disabilities are examined with a focus on history, definition, causation, teaching methods and inclusive practices. Emphasis is placed on the appropriate selection of assessment and teaching strategies, lesson planning, and use of technology for students with special needs.
Prerequisite: SPED 2301.

SPED 3305. Assessment Practices in Special Education. 3 Hours.
An overview of formal and informal assessment for special education is provided. This course includes basic concepts of measurement, assessment of academic achievement, screening tools, diagnostic testing, review of individual and group intelligence tests, perceptual skills, sensory acuity and adaptive behavior.
Prerequisite: SPED 2301.

SPED 3306. Behavioral Principles. 3 Hours.
This course examines basic behavioral principles including reinforcement, punishment, stimulus control, and measurement of behavior. Specific procedures are presented for establishing new behavior, increasing desirable behavior, and decreasing undesirable behavior for individuals with disabilities. Ethical considerations also are addressed.

SPED 3307. Behavioral Assessment, Intervention, and Evaluation. 3 Hours.
This course provides the interventionist with the techniques for designing, implementing, and evaluating behavioral interventions appropriate for individuals with Autism and related disabilities. Ethics of behavioral interventions will also be discussed.
Prerequisite: SPED 3306.

SPED 3308. Behavioral Intervention and Research Methods. 3 Hours.
All of the elements of single-subject research design are examined, providing practical information for assessing, designing, implementing, and evaluating behavior analytic techniques and curriculum for educating children with autism and related disorders. Ethics for practicing Behavior Analysts will also be examined.
Prerequisite: SPED 3306.

SPED 3309. Ethics in Behavior Analysis. 3 Hours.
Students are introduced to ethics, standards and guidelines in the area of applied behavior analysis. Ethical standards and guidelines of professional organizations are presented along with an analysis of how they affect service delivery. Students are provided with an overview of various strategies for personnel supervision and management.
Prerequisite: SPED 3306.

SPED 3310. Advanced Behavior Analysis. 3 Hours.
Students are introduced to the advanced study of human behavior from a behavior-analytic perspective. Emphasis is placed on theory, knowledge of current issues, and techniques for evaluating and teaching verbal behavior to individuals with autism or related disorders.
Prerequisite: SPED 3306,3307,3308.

SPED 3312. Family and Diversity Issues in Special Education. 3 Hours.
In this course, candidates learn about variations in family structure and the functions that contribute to diversity issues in special education. Students analyze and discuss various perspectives related to challenges and strengths of families of students with exceptionalities.
Prerequisite: SPED 2301.

SPED 4088. Special Topics in Special Education. 3 Hours.

SPED 4089. Independent Study in Special Education. 1-3 Hours.
Designed to permit individual students to study specific areas of interest and need. Course Equivalents: SPED 4303
Prerequisite: Approval of Department Chair.

SPED 4301. Study of Cognitive and Low Incidence Disabilities. 3 Hours.
This course includes a study of the characteristics and needs of students with intellectual disabilities. Topics include appropriate curriculum methods and instructional needs for all ages, life span issues, vocational, and transition issues. Twenty (20) hours of field placement required. This course must be taken concurrently with SPED 4302.
Prerequisite: SPED 2301, SPED 3302, SPED 3303 and SPED 3304.

SPED 4302. Collaborative Partners Across Lifespans. 3 Hours.
This course is designed to equip the prospective teacher with the collaborative skills needed in inclusive school and community environments. Areas that are emphasized include adaptations for instruction, transition planning, vocational/career education, and assistive technology. Twenty (20) hours of field placement required. This course must be taken concurrently with SPED 4301.
Prerequisite: SPED 2301, SPED 3302, SPED 3303 and SPED 3304.

SPED 4304. Transition Planning in Special Education. 3 Hours.
In this course, students examine the intersection between ethics, collaboration, and transition planning for students with exceptionalities. Special emphasis is placed on creating a transition plan for adolescents with exceptionalities as they move from school to post-school activities. Fifteen hours of field experience in settings that serve individuals with severe and profound disabilities is required as part of this course.
Prerequisite: 60 hours of course credit and SPED 2301, SPED 3303, SPED 3312, and SPED 3301 or SPED 4314.

SPED 4305. Student Teaching in Special Education. 3 Hours.
(SH Prior Course ID: SPD 484); The candidate is assigned a student teaching placement in a special education classroom for a period of 7 weeks. This time is divided among classroom assistance, instructional planning, classroom and individual instruction, and conference activities. The candidate will create a Teacher Work Sample during this placement, a project demonstrating master of the components of effective instruction and student learning. Successful completion of the Teacher Work Sample is required for program completion.
Prerequisite: Senior status and admission to student teaching.

SPED 4311. Content Learning in Special Education. 3 Hours.
In this course, candidates focus on learning characteristics and teaching methods in academic content areas for students with exceptionalities. Emphasis is placed on the selection and implementation of assessment, instructional strategies, lesson planning, and inclusive practices for students with high incidence disabilities. Fifteen hours of field experience is required as part of this course.
Prerequisite: 60 hours of course credit and SPED 2301 and SPED 3303 and SPED 3306 or SPED 3312 or SPED 3301 or SPED 4314.

SPED 4314. Literacy-Students with Exceptionalities. 3 Hours.
Candidates focus on methods of assessment and instruction related to teaching multiliteracies to students with exceptionalities. Students in this course gain competency in using formative assessments to identify students with severe and persistent literacy difficulties, and gain expertise in and knowledge of teaching approaches and curricula for improving childrens' literacy. Ten hours of field experience is required as part of this course.
Prerequisite: SPED 2301.

Sport Management (SPMT)

SPMT 3301. Professional Development in Sports. 3 Hours.
Students engage in an applied study of professional career development in the sport industry. Students will prepare for their chosen careers within the sport industry by developing decision-making strategies, interviewing skills, networking opportunities, and effective leadership behaviors.
Prerequisite: 45 hours.

SPMT 3302. Introduction to Sport Marketing. 3 Hours.
Students acquire a fundamental understanding of the marketing of sport events, products, and services to professional, collegiate, and community sport consumers. Planning and organization of appropriate marketing strategies to meet sport consumers' needs are addressed. Elementary electronic and social media marketing methods and their role in sport organization marketing strategy development are also discussed.
Prerequisite: 45 hours.

SPMT 4300. Leadership in Sport Management. 3 Hours.
Students examine leadership theory and its application to the sport industry. Students will study leadership theory and practice within the context of administering athletic departments or programs, directing sport-related businesses, and managing community sport environments. Students employ the tools necessary to handle the challenges and complexities of leadership, including data-informed problem solving, creating and implementing a shared vision, and responsive strategic thinking.
Prerequisite: 75 hours.

SPMT 4302. Principles of Sport Finance. 3 Hours.
Students analyze the financial tools that sport managers employ within the sport industry. Financial planning and forecast processing with sport organizations will be explored. Strategy development will also be examined within the context of both traditional and innovative financial methods that examine dynamic financial structure changes in the sport industry.
Prerequisite: 75 hours.

SPMT 4303. Principles of Sport Analytics. 3 Hours.
Students are introduced to the role of data analytics and its application within the sport industry. Students collect, sort, assess, and analyze data for the purposes of improving decision-making, increasing productivity, and maximizing profits.
Prerequisite: 75 hours.

Statistics (STAT)

STAT 3379. Statistical Methods in Practice. 3 Hours.
Students study organization and presentation of data; measures of central tendency, dispersion, and position; probability distributions for discrete and continuous random variables, sampling techniques, parameter estimation, and hypothesis testing. Emphasis is given to the use of statistical packages. Also offered as MATH 3379. Course Equivalents: MATH 3379
Prerequisite: Three (3) semester hours of college mathematics.

STAT 3380. Statistical Design and Analysis of Experiments. 3 Hours.
Students study sampling designs and hypothesis testing in analysis of variance, analysis of covariance, and regression analysis. Design characteristics, model diagnostics, and hypothesis testing are emphasized and work is required on real data. The MINITAB and SAS statistics packages are applied. Normally offered in the Spring semester.
Prerequisite: STAT 3379 or MATH 3379.

STAT 3381. Sample Survey Methods. 3 Hours.
Students study the principles needed in planning and conducting sample surveys. Topics may include random, stratified, systematic, and cluster sampling methods as well as sub sampling techniques.
Prerequisite: STAT 3379 or MATH 3379.

STAT 3382. Introduction to Statistical Computing. 3 Hours.
Students examine introductory topics in statistical computing and learn to use various software products related to statistical computing, such as the SAS, SPSS, and R statistical packages. Students also write code to perform calculations.
Prerequisite: STAT 3379.

STAT 3385. Statistical Methods for Data Science. 3 Hours.
Students examine data science methods, techniques, and applications. Topics include data cleansing and manipulation, visualization, and summarization. Additionally, students will explore programming and computing software such as Python and R.
Prerequisite: MATH/STAT 3379.

STAT 3390. Probability and Statistics for Sciences. 3 Hours.
Students study the fundamentals of probability, random variables and their probability distributions, and expected values. Topics include Student t-, F-, and Chi-Square distributions, the confidence interval; hypothesis testing; regression analysis, and ANOVA.
Prerequisite: MATH 1420.

STAT 4090. Independent Study. 1-3 Hours.
This course is designed for advanced students to engage in independent study of an area of interest in statistics under the close guidance of a faculty mentor. Prerequisite: Consent of instructor. Variable credit (1 to 3).
Prerequisite: Consent of instructor.

STAT 4370. Special Topics in Statistics. 3 Hours.
This course is designed to accommodate independent study and research with content determined by mutual agreement of student and supervisor. However, it may also be taught as a special organized class when there is sufficient student interest in a particular project. Such topics as survival analysis, modeling and analysis, categorical data analysis, biostatistics, Monte-Carlo techniques, and bootstrapping may be included. This course may be taken for Academic Distinction credit. (See Academic Distinction Program in this catalog.) May be repeated for credit.
Prerequisite: MATH 3379 or STAT 3379, and consent of instructor.

STAT 4371. Theory and Applications of Probability and Statistics I. 3 Hours.
Students explore basic concepts and properties of probability, random variables, statistical distributions, measures of central tendency, variance, covariance, correlation, functions of random variables, sampling distributions, and the Central Limit Theorem. Also offered as MATH 4371. Normally offered in the Fall semester. Course Equivalents: MATH 4371
Prerequisite: MATH 1430.

STAT 4372. Theory and Applications of Probability and Statistics II. 3 Hours.
Topics include multivariate, conditional and marginal distributions, point and interval estimation, theory of estimation, maximum likelihood estimates, hypothesis testing, likelihood ratio tests, contingency analysis, and nonparametric statistics. Also offered as MATH 4372. Normally offered in the Spring.
Prerequisite: STAT 4371.

STAT 4373. Nonparametric Statistics. 3 Hours.
Students study chi-square goodness-of-fit testing and inferences concerning location and scale. Specific tests include the sign test, Wilcoxon signed-rank test, the Kruskal-Wallis test, tests for randomness and trends, and contingency analyses.
Prerequisite: STAT 3379 or MATH 3379.

STAT 4374. Regression Modeling & Analysis. 3 Hours.
Student study model estimation and testing, model diagnostics, residual analysis, variables selection, and multicollinearity. Work is required on real data with the use of the MINITAB and SAS statistics packages.
Prerequisite: STAT 3379 or MATH 3379.

STAT 4375. Quality Control & Reliability. 3 Hours.
Students examine topics, such as attribute and variables control charts, process capability, acceptance sampling, probabilistic foundations of reliability, hazard functions, failure laws, and system reliability.
Prerequisite: MATH 3379 or STAT 3379.

STAT 4376. Time Series and Forecasting. 3 Hours.
Students examine topics, such as types and classification of time series, methods of forecasting, errors in forecasting, regression analysis for time series, decomposition methods, exponential smoothing, Box-Jenkins methods, nonseasonal and seasonal modeling, and transfer function and intervention models.
Prerequisite: MATH 3379 or STAT 3379.

STAT 4377. Introduction to Applied Bayesian Analysis. 3 Hours.
Students employ statistical methods and their applications using the Bayesian paradigm. Topics may include conditional probability, Bayes' Rule, likelihood ratios, hypothesis testing and credible intervals for population means and population proportions, and simple linear regression using Bayesian estimators. Software such as R, JAGS, WinBugs, and SAS may be used for data analysis.
Prerequisite: STAT 3379 or MATH 1430.

STAT 4390. Introduction to Statistical Learning. 3 Hours.
Students apply the tools needed for modeling and understanding complex data sets. Topics may include regression, logistic regression, Ridge Regression, Lasso Regression, classification and regression techniques, decision trees, and model selection techniques.
Prerequisite: STAT 3379.

String Bass (STBS)

STBS 1101. Secondary Performances-String Bass. 1 Hour.
Students study techniques and musicality related to string bass in weekly individualized private instruction. Students admitted as a String Bass primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

STBS 1201. Individual Performances-String Bass. 2 Hours.
The course consists of individualized private instruction on the string bass Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

STBS 3201. Individual Performances-String Bass. 2 Hours.
The course consists of advanced individualized private instruction on the string bass. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

STBS 3202. Applied String Bass w/ Jr Recital. 2 Hours.
The course consists of advanced individualized private instruction on the string bass. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Supply Chain Management (SCMG)

SCMG 1301. Project Management Essentials and Components. 3 Hours.
Students explore the essential concepts of project management and learn to apply this knowledge using various applications. Students gain knowledge of project fundamentals including an understanding of the difference between predictive and adaptive project methodologies. Pre-req: None.

SCMG 3370. Operations Management. 3 Hours.
Students address issues pertaining to the operations function within manufacturing and service firms competing in a global environment. The relationship of operations to other organizational functions are investigated. Topics may include decision making, project management, forecasting, capacity planning, facilities design and location, process and product design, inventory management, and quality assurance. Course Equivalents: MGMT 3370, MGMT 4370
Prerequisite: 42 credit hours, MGMT 3310, and BANA 2372 or MATH 1342.

SCMG 3372. Supply Chain Management. 3 Hours.
This course is a study of how different organizations can effectively coordinate to form the supply chain of a product or a service in order to deliver it to end consumers at the lowest cost possible while optimizing customer service levels. Students will learn the managerial principles and methods used to efficiently perform the sourcing, production, and distribution of products and services in a global environment. Topics include purchasing, supplier selection/development, materials handling, demand planning, risk management, transportation, warehousing, inventory management, and channel relationships. Course Equivalents: MGMT 3372, MGMT 4360
Prerequisite: 42 credit hours, SCMG 3370 (concurrent enrollment allowed), MKTG 3310.

SCMG 3374. Strategic Sourcing/Procurement. 3 Hours.
Students gain in-depth knowledge of the concepts, methods, and responsibilities of the purchasing function for manufacturing and service organizations. Topics may include the organizational role of strategic sourcing, procurement, contract and pricing practices, negotiation, quality assurance and reliability, inventory management, make-or-buy decisions, material management, and the acquisition of transportation and other services. Course Equivalents: MGMT 3374
Prerequisite: 42 credit hours and SCMG 3370.

SCMG 3376. Global Supply Chain Logistics. 3 Hours.
Students focus on the basic concepts and techniques of domestic and international logistics in the context of supply chain management. Topics may include the efficient flow and storage of both raw materials and finished goods, and the associated managerial activities needed for effective control of materials from their initial point of origin to their final point of consumption. Emphasis is placed on the strategic importance and competitive advantage logistics provides in a global marketplace, providing students the tools and methods necessary to analyze business logistics problems. Course Equivalents: MGMT 3376
Prerequisite: 42 credit hours and SCMG 3370.

SCMG 4350. Project Management. 3 Hours.
Students focus on the planning, implementation, and control of projects. Coverage includes the project management knowledge areas and lifecycle of projects. The appropriate intellectual foundation is established so that students can work, individually and in teams to solve project related problems. Course Equivalents: MGMT 4350
Prerequisite: 42 credit hours and BANA 2372 or MATH 1342.

SCMG 4365. Service Operations Management. 3 Hours.
Students address issues pertaining to the operations function within service organizations competing in a global environment. The relationship of operations to other organizational functions are investigated. Topics may include understanding services, new service development, service quality, process improvement, location decisions, capacity planning, waiting lines, forecasting, inventory management, and service supply relationships. Course Equivalents: MGMT 4365
Prerequisite: 42 credit hours, BANA 2372 or MATH 1342, and MGMT 3310.

SCMG 4375. Quality Management. 3 Hours.
Students study current topics in quality assurance management to include total quality control, statistical quality control, statistical process control, quality circles, and Deming's methods. An emphasis is placed on the systems approach to quality assurance. Course Equivalences: MGMT 4375
Prerequisite: 42 credit hours and BANA 2372 or MATH 1342.

SCMG 4376. Management Science. 3 Hours.
In this course, students will learn quantitative methods used in the analysis of business problems. Topics include: decision theory, linear programming, transportation and inventory models, Bayesian probability, and queuing theory. Course Equivalents: BANA 3364, MGMT 4376
Prerequisite: 42 credit hours and BANA 2372 or MATH 1342.

SCMG 4378. Supply Chain ERP. 3 Hours.
Students examine the tactical and operational management of supply chains using enterprise resource planning (ERP) systems. Topics focus on issues related to the creation of end-user value through supply chain cost reductions and/or service improvements. Students gain hands-on experience with software used by organizations to manage and improve the efficiency of their supply chains.
Prerequisite: 42 credit hours and SCMG 3372 (formerly MGMT 3372) Course Equivalents: MGMT 4378 .

Teach English as Second Lang (TESL)

TESL 3303. Literacy Strategy for English Language Learners. 3 Hours.
This course emphasizes linguistic and cultural principles, lesson planning, practical methods, curricula and materials for teaching English to speakers of other languages in pre-kindergarten to sixth grade classrooms. Students will gain first-hand experience working with linguistically and culturally diverse students in Texas schools.
Prerequisite: BESL 2301, BESL 3301.

TESL 3313. English Second Language Methodology I. 3 Hours.
In this course, candidates will study linguistic and cultural principles in language teaching and learning. Emphasis is placed on research-based English as a Second Language (ESL) methodology in the classroom. Students observe ESL classroom practices and create lesson plans and materials for English language learners. Ten hours of field experience is required as part of the course.
Prerequisite: BESL 3301 with a grade of C or higher.

TESL 4303. Teaching English As A Second Language. 3 Hours.
The course identifies current instructional methods and approaches to teaching English as a second language to nonnative speakers of English beginning at the early childhood level through adult. Principles and concepts of second language learning, linguistic contrasts between English and other languages, and the instructional processes are emphasized. Field experience in PK-12 schools required.
Prerequisite: Junior standing.

TESL 4314. English Second Language Methodology II. 3 Hours.
In this course, candidates apply research based methods in planning and implementing instruction for English language learners in the content areas. Students develop curricular materials and assessments for English language learners at all levels of English language proficiency. Fifteen hours of field experience is required as part of the course.
Prerequisite: TESL 3313 .

TESL 4330. Teaching Second Language Online. 3 Hours.
Students explore theory, design, and research related to meaningful online instruction in second/foreign language learning. Current teaching practices and research in Computer Assisted Language Learning (CALL) are examined.

Theatre (THEA)

THEA 1100. Singing for Actors. 1 Hour.
This specialized voice class is designed to introduce singing technique in a group setting to Theatre majors with an acting/directing emphasis.

THEA 1115. Technical Build Crew. 1 Hour. [TCCN: DRAM 1120]
Tech Build Crew focuses on practical work that deals with construction aspects of theatrical productions. Those aspects include carpentry, theatrical rigging, lighting, sound, scenery, props, scenic painting, special effects, welding, the basics of running a show, and general theater maintenance.

THEA 1116. Costume Crew. 1 Hour. [TCCN: DRAM 1121]
Students are prepared to work with costumes for a production, dress actors and help with hair and make-up during the run of the show. Additional duties include maintaining garments, stock, and the costume and make-up areas throughout the run.

THEA 1117. Management Crew. 1 Hour. [TCCN: DRAM 2120]
Students are introduced to the logistics of theatre management. Topics may include box office training, patron service training, promotional designs, and advertisement/public relations. This is a practical crew course consisting of actual work on departmental productions.

THEA 1330. Introduction to Scenic Technology. 3 Hours. [TCCN: DRAM 1330]
Students are introduced to theatrical production. Students are provided an overview of the elements of production to include an introduction to the basic components of theatre technology, stage scenery, stage lighting, theatrical costuming, stage management, theatre management, and script analysis. This course is designed to introduce the student to all areas of theatrical production.

THEA 1331. Introduction to Lighting Technology. 3 Hours. [TCCN: DRAM 2331]
Students are introduced to theatre technology with a focus on the techniques and methods in set construction, lighting and sound technology, property construction, and theatrical production techniques.

THEA 1332. Introduction to Costume Technology. 3 Hours. [TCCN: DRAM 1342]
Students study the basic techniques of costuming, sewing, dyeing, and distressing fabrics.

THEA 1364. Beginning Acting. 3 Hours. [TCCN: DRAM 1351]
Students study basic techniques in body, voice, characterization, and play analysis as they are applied to the performance of stage tasks by the actor.

THEA 1366. Theatre Appreciation. 3 Hours. [TCCN: DRAM 1310]
Students analyze the theatrical experience for the audience with an examination of theatre's relation to the broad contemporary scene as well as its relation to past eras. In addition, students. examine the production elements necessary to provide the theatrical experience.

THEA 2330. Stage Make Up. 3 Hours. [TCCN: DRAM 1341]
Students engage in a survey of the reasons for stage make-up and the types of make-up available. Principles of designing make-up for characters in a play. Intensive practical application.

THEA 2336. Voice I for the Actor. 3 Hours. [TCCN: DRAM 2336]
Students engage in beginning training in the release of the voice for effective communication with work on breathing, projection, placement, articulation, resonance, and quality.

THEA 2337. Voice II for the Actor. 3 Hours.
Students engage in advanced training in application of appropriate vocal techniques to produce optimum control of quality, projection, and precision in diction. Ultimately the application is in fusing technique with the actor's interpretation of roles.
Prerequisite: THEA 2336, THEA 1364, or consent of the instructor.

THEA 2359. Hand Drafting in Theatre. 3 Hours.
Students study hand drafting techniques for the design and construction of theatrical scenery. Students learn how to utilize hand drafting tools and how to read and create design drafting packages for the theatre.

THEA 2360. Beginning Design. 3 Hours. [TCCN: DRAM 2335]
Students are introduced to the methods, concepts and materials of designing for theatre, including the basic element s of set design, properties design, lighting design, and sound design for the stage. Students are introduced to the methods of developing a design from script analysis to presentation of the completed design. Restricted to Theatre or Musical Theatre major.

THEA 2361. Computer Drafting in Theatre. 3 Hours.
Students are introduced to computer aided drafting and design for theatrical applications with a practical approach to computer drafting of floor plans, elevations, sections, light plots, and organizational diagrams using popular CAD software developed specifically for theatrical applications as well as programs like AutoCAD and Project Manager.
Prerequisite: THEA 1331 or permission of instructor.

THEA 2367. Play Analysis. 3 Hours. [TCCN: DRAM 2355]
Students examine the methodology for analyzing dramatic masterworks primarily as tools for the theatre craftsman and emphasizes the importance of this practical skill for actors, directors, designers, and playwrights. While focusing on the dramatic structure of a script in various plays, students concurrently examine the playwright's social and cultural milieu.

THEA 2368. Intermediate Acting. 3 Hours. [TCCN: DRAM 1352]
Students explore the techniques of freeing the body, body language, and movement in the development of characterization and actor technique.
Prerequisite: THEA 1364 or consent of instructor.

THEA 3114. Theatre Workshop. 1 Hour.
One semester hour of credit may be received per semester for work done in this practical workshop consisting of actual work on productions. May be repeated for credit.
Prerequisite: Junior or higher standing or by audition.

THEA 3115. Advance Technical Build Crew. 1 Hour.
Students focus on practical work dealing with advanced construction skills of theatrical productions. Those skills include carpentry, theatrical rigging, lighting, sound, scenery, props, scenic painting, special effects, welding, the basics of running a show, and general theater maintenance. Focus is placed on advanced logistics of being on a backstage crew to run theatrical productions.
Prerequisite: THEA 1115.

THEA 3116. Advanced Costume Crew. 1 Hour.
Students study advanced costume construction techniques. Students prepare the costumes for a production. Students learn to supervise a run crew during a show and help with hair and stage make-up with additional duties to include maintaining garments, stock, and the costume and make-up areas throughout the run.
Prerequisite: THEA 1116.

THEA 3117. Musical Theatre Workshop. 1 Hour.
This course aims to synthesize musical theatre majors' work in music and dance. May be repeated for credit. Required of all musical theatre majors every semester.
Prerequisite: Musical Theatre Majors.

THEA 3127. Advanced Theatre Management Crew. 1 Hour.
Students are introduced to advanced concepts and logistics of theatre management. Topics may include advanced box office training, patron service training, ushering, learning new formats and software for poster and program designs, advertisement, and public relations. Additionally, students mentor students who are participating in THEA 1117. This is a practical crew consisting of advanced work on departmental productions.
Prerequisite: THEA 1117.

THEA 3331. Advanced Stage Make Up. 3 Hours.
Students engage in an investigation of and experimentation with three-dimensional makeup constructions to provide drastic alteration of the actor's face for stage, film, and television.
Prerequisite: THEA 2330 or consent of the instructor.

THEA 3332. Computer Rendering for Theatre. 3 Hours.
This is a skills-based course that gives students experience in using the computer to create visual documentation in the design process. Subject areas include set renderings, costume renderings, painters elevations, and scenic models.

THEA 3334. Stage Costume Design. 3 Hours.
Students engage in a survey of historical costume; contrast of general clothing with stage costume; and consideration of all elements involved in designing costumes for an entire production.
Prerequisite: Sophomore standing.

THEA 3335. Costume Construction. 3 Hours.
Students explore pattern drafting, draping, and construction techniques for period and modern costumes. Knowledge of machine sewing is required. Projects may include bodices, skirts, pants, corsets, and 18th and 19th-century men's coats.
Prerequisite: THEA 1332 and/or consent of the instructor.

THEA 3336. Scenic Design. 3 Hours.
Students study how to both design and communicate a theatrical space. The process is based on script analysis and research through model making, ground plans, and hand sketches.
Prerequisite: THEA 1330 or instructor approval.

THEA 3337. History Of Costume. 3 Hours.
Students engage in a survey of historical costumes and accessories by periods from ancient Egypt to the present day, with a contrast of general clothing with stage costumes.
Prerequisite: Sophomore standing or consent of instructor.

THEA 3360. History Of The Theatre I. 3 Hours.
Students engage in a survey of the origins of the theatre, with major concentration centered upon the development of the western theatre from the Greeks to the Neoclassic.
Prerequisite: ENGL 1301 and ENGL 1302.

THEA 3362. Lighting and Sound Design. 3 Hours.
Students investigate the use of light and sound in a theatre space. They design for the performer and the action of the play and develop lighting effects, sound effects, and special effects. Additionally, the student begins to explore the use of microphone technology.
Prerequisite: THEA 2360 and THEA 2361.

THEA 3363. Property Design for Theatre. 3 Hours.
Students concentrate on the tools and techniques used by professional designers in the design and construction of properties for theatre. Topics covered may include transforming found objects, period research, texturing, molding, casting, computer generated properties, and painting.

THEA 3364. Dramaturgy. 3 Hours.
Students study production dramaturgy: an exploration and application of the processes, research, and resources used by academic and professional theatres, combining knowledge with creativity in order to make informed production choices. ENGL 1301 and ENGL 1302. ENGL 1301 and ENGL 1302.
Prerequisite: Junior standing or consent of instructor.

THEA 3365. Stage & Theatre Management. 3 Hours.
Students engage in an advanced study of theatre management with an emphasis on the organizational, technical and management responsibilities of a stage manager as well as the public relations and marketing skills needed to run a house and box office with a focus on the establishment of a collaborative atmosphere within a production team or within a theatre company.

THEA 3369. Advanced Acting: Modern Theatre. 3 Hours.
Students engage in a detailed study of action and characterization through scene study, research, and self-use, utilizing interior and exterior methods to develop a working method for each actor.
Prerequisite: THEA 1364, THEA 2368 or consent of instructor.

THEA 3370. Advanced Acting: Classical Theatre. 3 Hours.
Students engage in advanced scene study with concentration on textual analysis, structure, diction, and rhythm of the script.
Prerequisite: 9 hours of acting courses or consent of instructor.

THEA 3372. Improvisational Techniques. 3 Hours.
Students develop their use of improvisations, games, and ritual to enhance creative thinking, problem solving skills, characterization, and trust within the rehearsal process.
Prerequisite: THEA 1364 or consent of instructor.

THEA 3373. Stage Movement I for the Actor. 3 Hours.
Students learn to increase awareness and command of the body as an expressive instrument. Through specialized in-class exercises, actors increase their dynamic stage presence; develop a supple, responsive physicality; and increase awareness of kinesthetic ensemble response.

THEA 3374. The Actor & Commedia dell'Arte. 3 Hours.
This course trains actors using stock characters of commedia dell'arte, an Italian theatrical form. Specialized in-class exercises, exploration of mask work and clowning lead students to find an awareness of their own habits in characterizations. Students broaden their physical expressiveness leading to a heightened and vibrant stage presence.
Prerequisite: Sophomore standing.

THEA 3380. Meisner Technique. 3 Hours.
Students learn the skills and tools necessary for advanced scene work using the Sanford Meisner Technique. Students are led through Meisner-based exercises, activities and scenework. Through the Meisner approach, advanced work on using personal experiences for character work, listening on-stage and making strong, creative choices are examined. These activities lead to the understanding of advanced concepts and techniques as they apply to a personalized acting process.
Prerequisite: THEA 1364, THEA 2368, and THEA 3369.

THEA 3395. Acting In Major Roles. 3 Hours.
This course allows credit for performing a major role in Theatre Program productions, involving research, rehearsal and performance during the nine-month academic year. May be repeated for credit.
Prerequisite: Junior or higher standing or by audition.

THEA 3396. Realized Performance or Production. 3 Hours.
Students prepare and significantly contribute to a Theatre and Musical Theatre Departmental production in ways that may include designing, directing, stage managing, performing a significant role, or contributing to a major aspect of the production process. Students demonstrate proficiency through research, rehearsal, and the performance or presentation of this work.
Prerequisite: By audition or assignment.

THEA 4092. Independent Study. 1-3 Hours.

THEA 4093. Theatre Internship. 1-3 Hours.
This course is a practical application of skills and knowledge learned in the classroom for students who have completed appropriate courses and achieved an acceptable GPA. Internships may be arranged with an approved theatre. Entrance into this course requires permission of the department chair. Variable Credit (1-3).
Prerequisite: Theatre or Musical Theatre majors only.

THEA 4094. Special Topics. 1-3 Hours.

THEA 4190. Senior Showcase. 1 Hour.
An extension of THEA 3117 Musical Theatre Workshop, the Senior Showcase is a research, collaboration, and preparation class for participating senior musical theatre majors.
Prerequisite: Departmental approval.

THEA 4325. Stage Movement II for the Actor. 3 Hours.
This course is designed to lead the student toward an advanced awareness of the body as an expressive instrument. Students employ advanced kinesthetic ensemble responses as they begin to foster original work, coalescing all facets of advanced theatre movement to form the beginning of new work.
Prerequisite: THEA 3373.

THEA 4326. Stage Combat. 3 Hours.
This course focuses on specific stage combat disciplines with compulsory techniques. Students learn hand-to-hand combat, rapier and dagger, and other forms of violence found on stage and film. Each stage combat technique is taught for safety, theatrical commitment, and believability within a dramatic context.
Prerequisite: Junior standing or permission from the instructor.

THEA 4330. Advanced Scenic Design. 3 Hours.
Advanced design. Students are involved in creating scenic, lighting, and sound design projects. The course may include extensive sketching, rendering, computer drafting, and model building.
Prerequisite: THEA 1330, junior standing or consent of the instructor.

THEA 4331. Acting For The Camera. 3 Hours.
Students engage in an intensive and practical study of the special techniques of acting for film and television with the goal of work in those industries with extensive scene work in front of the camera. Must be a theatre or musical theatre major. Must be a Theatre or Musical Theatre major.
Prerequisite: THEA 1364, THEA 2368, THEA 3369 and consent of the instructor.

THEA 4332. Auditioning For Community Theatre. 3 Hours.
Students are prepared with appropriate audition materials and the knowledge to meet the variety of demands in the commercial world of theatre, musical theatre, cinema, and television.
Prerequisite: Consent of the instructor.

THEA 4360. History Of The Theatre II. 3 Hours.
Students engage in a survey of changing styles in theatre, from the Romantic revolution through the Realistic movement to the innovations of the twentieth-century theatre.
Prerequisite: ENGL 1301 and ENGL 1302.

THEA 4361. Stage Lighting. 3 Hours.
Students study lighting design as an art: the history of stage lighting and a study of contemporary stage lighting techniques, practices, and equipment. Students design lighting for a show of their own choosing.
Prerequisite: THEA 1331, THEA 3362 and basic computer literacy or consent of instructor.

THEA 4362. Playwriting. 3 Hours.
Students study the elements of playwriting through writing exercises designed to enhance the understanding of structure, style, character, and dialogue.
Prerequisite: Junior standing or consent of instructor.

THEA 4363. Dramatic Theory & Criticism. 3 Hours.
Students study the principles of various styles and periods of dramaturgy, involving a history of criticism from Aristotle to the present. Representative plays are analyzed for theme, structure, characterization, and dialogue with a view to their influences on contemporary theatre. Emphasis is placed on written student criticism and evaluation of plays.
Prerequisite: ENGL 1301 and ENGL 1302.

THEA 4365. Portfolio Development. 3 Hours.
Students develop individualized projects in scenery, costume, lighting, sound, or technical production. Prerequisite two of the following design courses: THEA 3334, THEA 4330, OR THEA 4361; consent of instructor.

THEA 4366. Directing I. 3 Hours.
Students engage in basic director preparation in script analysis, communication skills, creating ground plans, and scene study through a wide variety of exercises and direction of scenes.
Prerequisite: THEA 1364, THEA 2367 junior standing and/or consent of the instructor.

THEA 4367. Directing II. 3 Hours.
Student engage in basic director preparation in script analysis, communication skills, creating ground plans, and scene study through a wide variety of theatrical styles and direction of scenes.
Prerequisite: THEA 4366, junior standing and/ or consent of the instructor.

THEA 4368. Experimental Theatre Production. 3 Hours.
Students analyze plays that depart from the realistic genre and examination of new production possibilities arising out of developments in theatre technology that complement the experiments of the playwrights. Application of theory in laboratory productions.

THEA 4371. The American Musical Theatre. 3 Hours.
Students study the history of the development of musical theatre (excluding opera) in America with emphasis placed on written student criticism and evaluation of musical theatre.

THEA 4376. Scene Painting. 3 Hours.
Students focus on advanced theatre scenic painting techniques. Theatre scenery encompasses large-scale painting, faux finishes, drops, and textures. By using a variety of painting tools and materials, students produce professional-quality projects that meet theatre industry standards.
Prerequisite: THEA 1330.

THEA 4387. Workshop Childrens Creative Drama. 3 Hours.
Students study fundamental theories and elements of creative drama, with emphasis in developing and guiding creative drama activities such as storytelling, improvisation, rhythmic and interpretative movement, puppetry, theatre in education techniques, and pantomime. The course is designed for prospective teachers grades K-12.

THEA 4388. Theatre Production for Youth. 3 Hours.
Students study and practice creating and performing theatre for youth. The focus on techniques for creating professional theatre for young audiences includes performances in the community. Students are taught lesson plan development following Texas Essential Knowledge and Skills (TEKS) standards.

THEA 4389. Repertory Theatre. 3 Hours.
Students engage in a unified approach to theatre, contrasted with the compartmentalized division of labor used more frequently, allowing the self-contained group to do all of the production work as well as the acting. May be repeated for credit. Offered in summer terms.

THEA 4392. Undergraduate Seminar in Theatre. 3 Hours.
A course for the undergraduate student which allows a student to pursue particular areas beyond the limits of current course offerings. The particular study, however, will be within the student's areas of specialization. May be repeated for credit. May be repeated for credit.
Prerequisite: Permission of the Program Coordinator.

Trombone (TRMB)

TRMB 1101. Secondary Performances-Trombone. 1 Hour.
Students study techniques and musicality related to trombone in weekly individualized private instruction. Students admitted as a Trombone primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

TRMB 1201. Individual Performances-Trombone. 2 Hours.
The course consists of individualized private instruction on the Trombone Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

TRMB 3201. Individual Performances-Trombone. 2 Hours.
The course consists of advanced individualized private instruction on the Trombone. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

TRMB 3202. Applied Trombone with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the Trombone. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Trumpet (TRMT)

TRMT 1101. Secondary Performances-Trumpet. 1 Hour.
Students study techniques and musicality related to trumpet in weekly individualized private instruction. Students admitted as a Trumpet primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

TRMT 1201. Individual Performances-Trumpet. 2 Hours.
The course consists of individualized private instruction on the trumpet Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

TRMT 3201. Individual Performances-Trumpet. 2 Hours.
The course consists of advanced individualized private instruction on the trumpet Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

TRMT 3202. Applied Trumpet with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the trumpet. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Tuba (TUBA)

TUBA 1101. Secondary Performances-Tuba. 1 Hour.
Students study techniques and musicality related to tuba in weekly individualized private instruction. Students admitted as a Tuba primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

TUBA 1201. Individual Performances-Tuba. 2 Hours.
The course consists of individualized private instruction on the tuba. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

TUBA 3201. Individual Performances-Tuba. 2 Hours.
The course consists of advanced individualized private instruction on the tuba. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

TUBA 3202. Applied Tuba with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the tuba. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

University-Wide (UNIV)

UNIV 1101. Bearkat U. 1 Hour.
Students explore the science of learning, cognition, and motivation to develop and apply self-directed learning skills to their own academic programs and career development.

UNIV 1301. Introduction to Collegiate Studies. 3 Hours.
UNIV 1301 is a seminar designed to enhance the first-year experience for beginning college students and to increase student success in college. The varied content of the course will facilitate a smoother transition into the college culture. Content areas include: goal setting and time management skills, writing skills, test preparation and taking skills, critical thinking skills, major and career exploration, locating and utilizing campus resources, diversity awareness, wellness strategies, money management, and leadership/civic service awareness. Students with junior and senior status will need to contact the First-Year Experience Office for approval.
Prerequisite: Open to all first year students (first-time and transfer) with less than 60 hours of college credit.

UNIV 2001. Academic Recovery I: Activating Academic Success. 0 Hours.
This course supports students on academic probation with the goal of restoring academic good standing. The course focuses on academic recovery strategies and methods related to university policies, academic and campus resources, communication techniques, studying strategies, and goal setting. It is designed to supplement the academic course load of students.
Prerequisite: Academic Probation Status.

UNIV 2112. Career Education and Development. 1 Hour.
Students explore career-specific skills and dispositions to develop and apply professional skills to early workforce experiences.
Prerequisite: 15 hours.

UNIV 3001. Academic Recovery II: Promoting Academic Resilience. 0 Hours.
This course supports students on academic suspension with the goal of restoring academic good standing. Students develop an understanding of SHSU's academic policies, identify academic goals, explore personal strengths, and identify solutions for academic challenges. It is designed to supplement the academic course load of students.
Prerequisite: Academic Suspension Status.

Victim Studies (VCST)

VCST 3341. Aging, Crime and Victimization. 3 Hours.
Students explore general knowledge about aging in the United States as it applies to information about senior adults' experiences with victimization, offending, and incarceration. Future directions for public policy related to crime and aging are evaluated. Course Equivalents: CRIJ 3341
Prerequisite: CRIJ 2361, CRIJ 2362.

VCST 3350. Victimology. 3 Hours.
Students engage in a survey of the literature, research, and current trends concerning the victim in the criminal justice system. Particular attention is given to victims' rights and compensation, fear of crime, measuring victimization, and the impact of victimization on individuals. Course Equivalents: CRIJ 3350, CRIJ 4380 .

VCST 3351. Victim Service Delivery. 3 Hours.
Students analyze the provision of social and criminal justice services to victims of crime. This is accomplished by examining community and individual services that are afforded to crime victims. The material covered also includes how victim advocacy is positioned within the formal systems of criminal justice and addresses the social and legal issues that impose upon victim service delivery and the theories that explain these impediments to service provision. Course Equivalents: CRIJ 3351
Prerequisite: VCST 3350.

VCST 4338. Child Abuse And Neglect. 3 Hours.
Students develop knowledge concerning key concepts and terminology related to child abuse and neglect, including related laws, and court procedures, investigative techniques, and intervention and prevention programs. In addition, this course provides a foundation for students who may enter professional careers that place them in a position to address and/or investigate suspected cases of child abuse and neglect. Course Equivalents: CRIJ 4338 .

VCST 4351. Trauma and Crisis Intervention. 3 Hours.
Students focus on understanding and effectively assisting victims of traumatic events. Students learn how the context in which trauma occurs can affect the cognitive, affective, behavioral, and neurological functioning of an individual. Multicultural aspects that either impair or facilitate recovery are assessed. Crisis intervention models and the pertinent legal and ethical issues for service provision are evaluated. Prerequisite Junior standing and VCST 3350. Course Equivalents: CRIJ 4351 .

VCST 4370. Interviewing & Counseling. 3 Hours.
Students explore counseling psychology as applied to counseling and interviewing victims of crime. Particular emphasis is placed on principals and procedures; the theoretical foundations of therapeutic psychology; and the therapeutic process and its techniques. Course Equivalents: CRIJ 4370 .

VCST 4376. Independent Study in Victim Studies. 3 Hours.
Students examine a topic related to victim studies. Under the direct supervision of a faculty member, the faculty and student formulate a course of study which could include reviewing relevant literature, engaging in research, exploring professional practice, or conducting other forms of inquiry appropriate to the course of study. The course may be repeated for credit.
Prerequisite: Department Approval.

VCST 4377. Special Topics in Victim Studies. 3 Hours.
Students examine special topics in the field of victimology and victim services. This course is designed to give advanced undergraduate students academic flexibility. Students may repeat this course for credit when topics differ.

VCST 4383. Family Violence. 3 Hours.
Students explore theoretical and sociological issues, both past and present, associated with family violence victimization in society. Specific attention is given to the impact family violence has on the victim and society, legal aspects of family violence, key factors associated with recognition of family violence, and pertinent research on sub-types of family violence. Course Equivalents: CRIJ 4383 .

VCST 4390. Violence Against Women. 3 Hours.
Students analyze the deeper social context in which violence against women occurs. Topics to be covered may include intimate partner violence, rape and sexual assault, sexual harassment, and media depictions of violence against women. Attention is given to the ways in which violence against women affects women, men, and children. In addition, the ways that the criminal justice system responds to these types of crimes, including how the criminal justice system and social service agencies may better address the needs of victims and offenders. Course Equivalents: CRIJ 4390
Prerequisite: VCST 3350.

VCST 4398. Problem Analysis in Victim Studies. 3 Hours.
This course serves as a capstone for Victim Studies undergraduate students. Students use skills and knowledge from prior victim studies courses to address victimization issues. The course consists of the application of research skills and analytic techniques to address facets of victimization including intimate partner violence, family violence, violence against women, elder abuse, and child abuse and neglect, stalking, and human trafficking. Attention is also given to victim service delivery and evaluation. Course Equivalents: CRIJ 4398
Prerequisite: Senior standing and VCST 3350.

Vinlincello (VNCL)

VNCL 1101. Secondary Performances-Violncello. 1 Hour.
Students study techniques and musicality related to violncello in weekly individualized private instruction. Students admitted as a Violncello primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

VNCL 1201. Individual Performances-Violncello. 2 Hours.
The course consists of individualized private instruction on the cello. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

VNCL 3201. Individual Performances-Violncello. 2 Hours.
The course consists of advanced individualized private instruction on the cello. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

VNCL 3202. Applied Cello with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the cello. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Viola (VIOL)

VIOL 1101. Secondary Performances-Viola. 1 Hour.
Students study techniques and musicality related to viola in weekly individualized private instruction. Students admitted as a Viola primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

VIOL 1201. Individual Performances-Viola. 2 Hours.
The course consists of individualized private instruction on the viola. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

VIOL 3201. Individual Performances-Viola. 2 Hours.
The course consists of advanced individualized private instruction on the viola. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

VIOL 3202. Applied Viola with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the viola. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Violin (VILN)

VILN 1101. Secondary Performances-Violin. 1 Hour.
Students study techniques and musicality related to violin in weekly individualized private instruction. Students admitted as a Violin primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

VILN 1201. Individual Performances-Violin. 2 Hours.
The course consists of individualized private instruction on the violin. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

VILN 3201. Individual Performances-Violin. 2 Hours.
The course consists of advanced individualized private instruction on the violin. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

VILN 3202. Applied Violin with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction on the violin. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Voice (VOIC)

VOIC 1101. Secondary Performances-Voice. 1 Hour.
Students study techniques and musicality related to voice in weekly individualized private instruction. Students admitted as a Voice primary are not permitted to take this course.
Prerequisite: Must be a music major with a different applied instrument concentration, or by instructor permission.

VOIC 1201. Individual Performances-Voice. 2 Hours.
The course consists of individualized private instruction in voice. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have instructor permission.

VOIC 3201. Individual Performances-Voice. 2 Hours.
The course consists of advanced individualized private instruction in voice. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Students must have passed a sophomore proficiency jury.

VOIC 3202. Applied Voice with Junior Recital. 2 Hours.
The course consists of advanced individualized private instruction in voice. Instruction focuses on technique and musicality. Students also attend a weekly studio class, where there are opportunities to perform for fellow students, and perform a culminating recital.
Prerequisite: Students must have instructor permission.

Wildlife Management (WMGT)

WMGT 2301. Principles of Wildlife Management. 3 Hours. [TCCN: AGRI 2330]
Students engage in a survey of sustainable and profitable wildlife management techniques, habitats, and resources. Topics may include alternative wildlife practices, animal and plant identification, ethical and economic considerations of wildlife and fisheries management, conservation, habitat alteration and renewal, and economic impact of the wildlife industry.

WMGT 2396. Special Topic. 3 Hours.
Students examine special topics/issues in Wildlife Management at an introductory level. This course may be repeated up to three times as topics and subject matter changes.

WMGT 3301. Wildlife Ranch Management. 3 Hours.
Students evaluate establishing, managing, and maintaining wildlife enterprises. The focus of this course is designing a profitable and sustainable ranch using both scientific and economic perspectives regarding livestock, as well as native and non-native wildlife species.
Prerequisite: WMGT 2301 with a grade of C or better.

WMGT 3310. Wildlife Ecology. 3 Hours.
Students learn the principles of population dynamics and the interrelationships between wildlife species and their environments. Students explore methodologies for population sampling and survey techniques used in wildlife management. Topics may include population analysis, habitat assessment, wildlife monitoring, ecological interactions between native and non-native species, and the influence of these interactions on conservation strategies.
Prerequisite: WMGT 2301 with a grade of C or better.

WMGT 3311. Laws and Regulations of Wildlife Management. 3 Hours.
Students learn wildlife laws and regulations at both federal and state levels with a special focus on Texas. Topics may include regulatory frameworks that guide wildlife conservation, management practices, and enforcement procedures; federal acts that include Endangered Species Act, the Migratory Bird Treaty Act, and the Lacey Act; and Texas-specific laws that govern trapping, fishing, and hunting.
Prerequisite: WMGT 2301 with a grade of C or better.

WMGT 3350. Cervid Fawn Care. 3 Hours.
Students examine the care of young cervid species from parturition to weaning with a main focus on white-tailed deer. Topics may include diagnosing and treating sick fawns, active and passive antibody transfer, fawn handling, immobilization, health, and birthing and weaning protocols.
Prerequisite: WMGT 2301.

WMGT 3381. Game Animal Production. 3 Hours.
Students study the principles and practices of game animal production. Game animals commonly used for economic diversification of agricultural enterprises are the central focus of the course. Topics may include animal identification, population dynamics, nutrition, habitat preservation and modification, reproduction, game laws, and economic integration in traditional agricultural enterprises. Course Equivalents: AGRI 3381
Prerequisite: WMGT 2301 with a grade of C or better and Sophomore standing.

WMGT 3382. Habitat & Pond Management. 3 Hours.
Students study wildlife habitat and riparian zone management, food plots for upland game birds and white-tailed deer, and pond management for largemouth bass, sunfish, and catfish production.
Prerequisite: WMGT 2301 with a grade of C or better and Sophomore standing.

WMGT 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of wildlife management skills and practices. This course may include internships, individual research, and industry studies.
Prerequisite: Sophomore standing.

WMGT 4301. Cervid Breeding and Production. 3 Hours.
Students examine production of the cervid species with a focus on white-tailed deer. Reproductive management practices pertaining to preferred, selective genetics and breeding cycles are be emphasized, with production based on an effective confinement management system. The primary topics may include general industry cycles, reproductive techniques and cycles, weaning of offspring and vaccination protocols, immobilization, and interstate/intrastate movement of cervid species.
Prerequisite: WMGT 2301 with a grade of C or better and Junior standing.

WMGT 4302. Cervid Management. 3 Hours.
Students examine the cervid industry from breeding to parturition. Cervid management is based on a confinement setting and focuses on anatomy and physiology, cervid nutrition during this stage of production, and feed types and feeding programs, cost of production, state and federal regulations, diseases and treatments, and fawn care.
Prerequisite: WMGT 2301 with a grade of C or better and ANSC 3373.

WMGT 4320. Wildlife Management Techniques. 3 Hours.
Students explore techniques and tools commonly used in the wildlife industry for management of captive and non-captive wild game animals. Topics include humane methods of trapping/capturing, managed wild game species and predator species, animal population assessment of mammals, birds and fish, establishment of food plots for wild game species, prescribed burns to manage wildlife habitat, and general animal management to ensure the well-being of the animal.
Prerequisite: WMGT 2301; C or better.

WMGT 4340. Exotic Animal Production. 3 Hours.
Students examine the multi-faceted exotic species industry in the state of Texas. Topics may include identification of species, habitat and nutritional needs, holding facility design, regulation and transportation requirements, marketing, cost of production, genetics, and determining market value.
Prerequisite: WMGT 2301 with a grade of C or better.

WMGT 4341. Upland Game Bird Management. 3 Hours.
Students conduct an in-depth investigation of upland game birds common in Texas. Topics may include identification, life cycles, plant and habitat identification, plant community succession, and the tools used to manage succession for successful upland game bird management.
Prerequisite: WMGT 2301 with a grade of C or better.

WMGT 4342. Waterfowl Management. 3 Hours.
Students learn the anatomy, ecology, management, and laws and regulations surrounding waterfowl species, with an emphasis on identification, dietary needs, and habitat requirements. Topics may include waterfowl diet, creating and enhancing waterfowl habitat, nesting and brooding ecology, migration dynamics, and factors that influence these processes. Through field studies and case analysis, students develop practical skills in managing waterfowl populations and their habitats.
Prerequisite: WMGT 2301 with a grade of C or better.

WMGT 4343. Integration of Livestock and Wildlife Management. 3 Hours.
Students examine the intersection of wildlife and livestock management, focusing on sustainable practices that benefit both sectors. Topics may include federal laws and regulations for land use and wildlife, strategies for disease prevention, methods for competition management for resources between wildlife and domestic livestock, and practices for livestock management to support wildlife conservation, including habitat improvement and grazing systems.
Prerequisite: WMGT 2301 with a grade of C or better.

WMGT 4369. Special Topic. 3 Hours.
Individual study in specialized areas of Wildlife Management. To be directed and approved by the Animal Science advisor. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: Junior standing.

World Language and Cultures (WOLC)

WOLC 1411. Beginning Foreign Language I. 4 Hours.
Students study the first half of an elementary course focused on spoken and written language designed for beginning students. Grade of C or better required in WOLC 1411 in order to continue to WOLC 1412. Course Equivalents: FOLG 1411 .

WOLC 1412. Beginning Foreign Language II. 4 Hours.
Students study an elementary course on spoken and written language designed for students that have some basic language knowledge, but want to improve their level in speaking, listening, writing and reading. Topics may include cultural knowledge. Course Equivalents: FOLG 1412
Prerequisite: Grade of C or better in WOLC 1411 or the equivalent.

WOLC 2311. Intermediate Foreign Language. 3 Hours.
Students focus on oral, listening, writing and reading skills. Topics may include oral drills on pronunciation, as well as listening comprehension exercises. Additional activities will consist of reading exercises to improve intonation, pronunciation with the objective of making students comfortable and confident in speaking and writing correctly. Course Equivalents: FOLG 2311
Prerequisite: Grade of C or better in WOLC 1411 and WOLC 1412 or equivalent.

WOLC 2312. Intermediate Foreign Language II. 3 Hours.
Students undertake a middle course on spoken and written language designed for students that have some basic language knowledge, but want to improve their level in speaking, listening, writing and reading. Topics include cultural knowledge. Course Equivalents: FOLG 2312
Prerequisite: Grade of C or better in WOLC 1411, WOLC 1412, and WOLC 2311 or the equivalent.

WOLC 3010. Applied Language Practicum. 1-3 Hours.
Students apply practical language skills as they observe and practice language in a professional context related to their field of study. Practicum topics and activities will vary based on student needs. This course may be repeated for credit as content varies. Variable Credit (1 to 3).
Prerequisite: Permission of Department Chair.

WOLC 3061. Individual Readings. 1-3 Hours.
An advanced-level student may undertake this course for individual study of a particular topic. Enrollment in this course is restricted and approval of such must be obtained from the department chair. The course may be repeated for credit as content varies. Variable Credit (1 to 3). Course Equivalents: FOLG 3061, FOLG 3361
Prerequisite: Consent of Instructor and Department Chair.

WOLC 4363. Language Learning: Concepts & Methods. 3 Hours.
Students develop working knowledge of foreign language teaching methods. Topics may include theories of language acquisition; comparisons between first and second language (L2) acquisition; individual differences in SLA (age, aptitude, motivation, etc.); the nature of learner grammars; the development of L2 fluency, and contextual factors influencing the quality and quantity of the input available to language learners. Course Equivalents: FOLG 4363 .

Faculty

See Interim Faculty (p. 1353)

Tenured/Tenure-Track Faculty

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- X (p. 1352)
- Y (p. 1352)
- Z (p. 1352)

A

Hosam Gharib Abdelhady, PHD (hosam.abdelhady@shsu.edu), *Associate Professor of Pharmacology*, *Department of Physiology & Pharmacology*, PHD, Univ of Nottingham; MPHARM, Cairo University; BPHARM, Al-Fateh Univ of Medical Sci

Berna El Rahi Abed el Sater, PHD (bxa051@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, University of Montreal; MS, American University of Beirut; BS, Notre Dame University

Abbas Aboohamidi, PHD (axa432@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MA, Texas Tech University; BBA, Texas A&M-Corpus Christi

Dallin Russell Adams, PHD (dra041@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Utah; MA, Brigham Young University; BA, Brigham Young University

Randy L Adams, MM (mus_rla@shsu.edu), *Professor of Music*, *School of Music*, MM, Northwestern University; BA, Univ of Houston-Main

Samuel Adu-Prah, PHD (sxa054@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MSED, Alcorn State University; MPHIL, University of Cambridge; BA, University of Ghana

Aisha Saratu Ahmadu, PHD (asa059@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Mississippi State University; MBA, New Mexico State University; BA, Midwestern State University

Irfan Ahmed, PHD (mgt_ixa@shsu.edu), *Associate Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Texas A&M University; MBA, The Indian Institute of Mgmt; BA, Osmania University

Bina Ajay, PHD (binaajay@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Cincinnati; BC, University of Mumbai

Ouadie Akaaboune, PHD (oxa021@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MACCY, Southern Illinois U-Carbondale; BA, Univ of Hawaii At Manoa

Sinem Akay-Sullivan, PHD (sxa055@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MED, Univ of North Texas; MS, Middle East Technical Univ; BS, Hacettepe University

Miriam Ama Bima Akoto, PHD (maa126@shsu.edu), *Assistant Professor of French*, *Department of World Languages & Cultures*, PHD, East Texas A&M; MA, Univ of Arizona; BA, Kwame Nkrumah University

Donald P. Albert, PHD (geo_dpa@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of N Carolina-Chapel Hill; MA, Appalachian State University; BS, Salem State College

John G Alford, PHD (jga001@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Calif-Los Angeles

Derli Dias Do Amaral Junior, PHD (dda030@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Southern Methodist University

Min Kyung An, PHD (an@shsu.edu), *Associate Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Texas At Dallas; MS, Univ of Texas-Arlington; BS, Jeju National University

Jeffrey S Anastasi, PHD (jsa001@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Suny At Binghamton

Jaime Lynn Anderson, PHD (jla068@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MS, Eastern Kentucky University; BA, Univ of Dayton; BA, Univ of Dayton

Mark J Anderson, PHD (mjanderson@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Iowa State University; MS, Texas Tech University; BS, Texas Tech University

Rebecca Kirstin Andrews Dickert, MD (rebecca.andrewsdickert@shsu.edu), *Assistant Professor of Physiology*, *Department of Physiology & Pharmacology*, MD, Michigan State University; BA, Univ of Chicago

Benny E Arney, PHD (chm_bea@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Rice University; BA, Univ of St Thomas

Michael I Arrington, PHD (mia016@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of Southern Mississippi

Jeremiah Ogonda Asaka, PHD (joa012@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Massachusetts-Boston; MA, Univ of Massachusetts-Boston; MS, Ohio University; BSC, Maseno University

Mario Aschauer, PHD (mxa072@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, University of Vienna; MA, Univ of Music & Perform Arts; MPHIL, University of Vienna

Burcu Ates, PHD (bxa013@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MA, Michigan State University; BA, Middle East Technical Univ

Mardelle Renee Atkins, PHD (mra043@shsu.edu), *Roland Black Endowed Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Traci Leigh Austin, PHD (tla016@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Nebraska-Lincoln; MED, Sam Houston State University; MA, University of Tulsa; BA, Univ of Nebraska-Lincoln; BA, Univ of Nebraska-Lincoln

Andia B Azimi, PHD (axa205@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BS, Georgia State University

B

Nancy E Baker, PHD (neb001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Harvard University; AM, Harvard University; MA, George Washington University; BA, Rutgers University

Maria Hasler Barker, PHD (mhb015@shsu.edu), *Associate Professor of Spanish, Chair of World Languages & Cultures*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Brigham Young University

Timothy Barnum, PHD (txb073@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Saint Ambrose; BA, Valparaiso University

Iftekhar Ibne Basith, PHD (iib002@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Windsor; MASC, Univ of Windsor; BSEE, Shah Jalal Univ of Sci & Tech

Janella Kay Baxter, PHD (jxb211@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Illinois-Chicago; MA, Univ of Colorado; BA, Seattle University

Andrea Lynne Beerwinkle, PHD (alb086@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas Tech University; BA, Texas A&M University

Kimberly K Bell, PHD (eng_kkb@shsu.edu), *Professor of English and Dean of Honors College*, *Department of English*, PHD, Georgia State University; MA, Clark University; BA, The American College of Greece

Helen Berg, PHD (hberg@shsu.edu), *Professor of Education and Associate Dean of COED*, *Department of Teaching & Learning*, PHD, Univ of Colorado; MED, Lesley College; BS, Univ of N Carolina-Greensboro

Milo D. Berg, PHD (eco_mdb@shsu.edu), *Associate Professor of Business Analysis*, *Department of Economics & Intl Business*, PHD, Texas A&M University; BSB, Univ of Minnesota-Twin Cities

Devon Michael Berry, PHD (dmb116@shsu.edu), *Associate Professor and Director of Nursing*, *School of Nursing*, PHD, Univ of Washington; MBA, Western Governors University; MSN, Case Western Reserve Univ; BSN, Cedarville University

Marcy Miller Beverly, PHD (agr_mmb@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Dana Elaine Bible, EDD (deb013@shsu.edu), *Assistant Proffessor of Business Administration*, *Department of Business Admin & Entrep*, EDD, Sam Houston State University; MBA, Sam Houston State University; BBA, Sam Houston State University

Tracy E. Bilsing, PHD (eng_teb@shsu.edu), *Associate Professor and Acting Chair of English; Associate Dean, Honors College*, *Department of English*, PHD, Texas A&M University; MA, Sam Houston State University; BA, Sam Houston State University

Jadwiga M Biskupska, PHD (jxb074@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Yale University; MA, Yale University; MA, Yale University; BA, Cornell University

Robin M Bittick, PHD (rmb004@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Claremont Grad Sch; MPA, California St Un-Dominguez Hil; BS, California St Un-Dominguez Hil

William Hollis Blackwell, EDD (whb004@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Boston University; EDM, Harvard University; BA, Colgate University

Jacob Damon Blevins, PHD (jblevins@shsu.edu), *Professor of English*, *Department of English*, PHD, Texas Tech University; MFA, McNeese State University; MA, McNeese State University; BA, McNeese State University

Leslie H Blix, PHD (lhb010@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MS, Cuny Queens College; BS, Hodges University; BA, Univ of Connecticut

Tonya J Blocker, PHD (tjb094@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Florida-Atlantic U; MS, Florida State University; BS, Florida State University

Marcus T Boccaccini, PHD (psy_mtb@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Univ of Santa Clara

Danielle Lynne Boisvert, PHD (dxb014@shsu.edu), *Professor of Criminal Justice and Criminology; Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MFS, George Washington University; BS, University of Western Ontario

Aaron Weston-Lloyd Bonnett, PHD (awb023@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Texas A&M University; MBA, Texas Woman's University; MHA, Texas Woman's University; BS, Texas A&M University

Mary K Borcherding, MFA (art_mkb@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Indiana University-Bloomington; BS, Univ of Wisconsin-Madison

Maria Del Pi Botero Jaramillo, PHD (mdb037@shsu.edu), *Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, York University; MA, York University; BA, Universidad Javeriana

Tony Lane Boutte, DMA (txb023@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Eastman School of Music; BFA, Louisiana Tech University

Tershundrea Branch, PHD (txb035@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; BS, Lamar University

Frances Elizabeth Brandau, PHD (scm_feb@shsu.edu), *Professor and Chair of Communication Studies*, *Department of Communication Studies*, PHD, LSU & A&M College; MA, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Jonathan P Breazeale, PHD (jpb005@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Texas A&M University; MBA, Millsaps College; BS, United States Military Academy

Emma Renee Breslauer, MFA (erb053@shsu.edu), *Assistant Professor of Art*, *Department of Art*, MFA, Univ of Texas-Arlington; BFA, Univ of Texas-Arlington

Ashley Lauren Brittain, EDD (axb199@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Abilene Christian University; MED, Univ of Texas-Arlington

Rosemarie M Brock, PHD (rmb043@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BA, Oklahoma State University

Joshua Martin Bronfman, PHD (jxb102@shsu.edu), *Professor of Music*, *School of Music*, PHD, Florida State University; MA, Oregon State University; BME, Florida State University

Ryan M Broussard, PHD (rxb055@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Louisiana-Lafayette; BA, Univ of Louisiana-Lafayette

Diana Michelle Brown, JD (dxb029@shsu.edu), *Associate Professor and Acting Chair of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BA, Rice University

Jonathan Nathan Brown, PHD (jnb047@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Indiana University

Lisa Ogle Brown, EDD (lob002@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Univ of Houston-Main; BS, Texas A&M University

Stephen L Brown, PHD (sbrown@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of Maryland-College Park; MS, Arizona State University; BS, Brigham Young University

Jonathan Ronald Bryson, MFA (jrb132@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Ball State University; BFA, Clemson University

Sibyl Rae Bucheli, PHD (srb009@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Ohio State University; MS, Ohio State University; BA, Hiram College

Harsh Harish Buddhadev, PHD (hhb005@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Iowa State University; MS, Univ of North Texas; BPHIL, Gujarat University

Scottie H Buehler, PHD (scottiecpm@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Calif-Los Angeles; MA, Univ of Calif-Los Angeles; BA, Univ of Texas At Austin

Emma Kathleen Price Bullock, PHD (exb051@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Utah State University; MMATH, Utah State University; BS, Brigham Young University

Ferry Butar Butar, PHD (mth_fbb@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Lincoln; BS, Academy of Statistics; DRS, University of Indonesia

Sandra Vanesa Buzon Vargas, PHD (svb015@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Texas A&M University; MBA, National University of Colombia; BS, University of the North, Colombia

Patrick Buzzini, PHD (patrick.buzzini@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Lausanne; MS, University of Lausanne

C

Emily R Cabaniss, PHD (erc016@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, North Carolina State Univ; MA, Univ of N Carolina-Greensboro; BA, Univ of N Carolina-Greensboro

William John Calderhead, PHD (wjc011@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Oregon; MED, Univ of Maryland-College Park; MA, University of Virginia - SFS; BS, Univ of Maryland-College Park; BA, The Johns Hopkins University

Rhonda L Callaway, PHD (rlc005@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Univ of North Texas; MA, Univ of North Texas; BA, Univ of Texas At Austin

Kiana Ellen Cano, PHD (kec112@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Univ of Houston-Main

Patricia Card, DMA (mus_ppc@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of North Texas; MMUS, Univ of Michigan; BM, Univ of North Texas

Linda G Carrington, PHD (carrington@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Univ of Maryland-College Park; MBA, Univ of Kentucky; BBA, Eastern Kentucky University

Christopher Frank Cascio, MFA (cfc005@shsu.edu), *Assistant Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BFA, San Francisco Art Inst

Daniella Kelleigh Cash, PHD (dkc025@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, LSU & A&M College; MA, Univ of Alabama-Huntsville; BS, Florida Southern College

Christopher M Cassidy, PHD (cassidy@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Texas A&M University; MBA, Gonzaga University; BS, U.S.Air Force Academy

Scott Thomas Chapman, PHD (stc008@shsu.edu), *Distinguished Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Univ of N Carolina-Chapel Hill; BS, Wake Forest University; BS, Wake Forest University

Leila Dolce Character, PHD (leilacharacter@shsu.edu), *Assistant Professor of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BS, Univ of The South

Danhong Chen, PHD (dxc062@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Penn State Un-Univ Park; PHD, Penn State Un-Univ Park; MA, Southeast University; BA, Nanjing Agicultural University

Yixin Chen, PHD (cindychen@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, University at Buffalo, Suny; MA, Univ of Texas-El Paso; ME, Huaqiao University; BE, Huaqiao University

Rebekah Melanie Chiasson, PHD (rmc080@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, West Virginia University; MA, Northern Illinois Un; BA, Keene State College

Paul W Child, PHD (pchild@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Notre Dame; MA, The Johns Hopkins University; MA, James Madison University; BA, Saint John'S University

Hyuk Cho, PHD (hxc005@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin; MA, Korea University; BE, Chonbuk National University

Jin Young Choi, PHD (jyc002@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Univ of Hawaii At Manoa; MA, Univ of Hawaii At Manoa; MPH, Univ of Hawaii At Manoa; MS, Ewha Women's University; BS, Ewha Women's University

Madhusudan Choudhary, PHD (mxc017@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, McMaster University; BSC, Patna University

Lindsay Camille Clark, PHD (lclark@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Oklahoma State University; MA, Midwestern State University; BA, Midwestern State University

Kristina Elizabeth Claunch, MLS (kclaunch@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MLS, Texas Woman's University; MS, Southwestern Assembly of God; BS, Sam Houston State University

Judith Alane Clemens-Smucker, PHD (jac300@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Bowling Green State University; MA, Bowling Green State University; BA, Goshen College

Shelly Lynn Clevenger, PHD (sxc167@shsu.edu), *Professor and Chair of Victim Studies*, *Department of Victim Studies*, PHD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Indiana University of Pennsyl

Kevin Mark Clifton, PHD (kmc053@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, Univ of Texas At Austin; MM, Univ of Texas At Austin; BA, Austin College

Mona C Cockerham, PHD (mcc053@shsu.edu), *Assistant Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas HSC-Houston; MSN, Univ of Texas HSC-Houston; BS, Louisiana College

Corinna O Cole, PHD (lls_cvc@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Sam Houston State University

Julie P Combs, EDD (jpc002@shsu.edu), *Distinguished Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BS, Texas A&M University

Eric J Connolly, PHD (ejc025@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Univ of North Alabama; BA, West Virginia University

Lisa Ann Connor, MS (lconnor@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MS, Drexel University; BS, Penn State Un-Univ Park

Mary A. Conroy, PHD (psy_mac@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Colorado State University; BA, Michigan State University

Douglas H Constance, PHD (soc_dhc@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Univ of Missouri-Columbia; MS, Univ of Missouri-Columbia; BS, Univ of Missouri-Columbia

Fabrice Philippe Conte Williamson, PHD (fabricecw@shsu.edu), *Associate Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, PHD, Univ of Oklahoma-Norman; MFA, Univ of Oklahoma-Norman; BA, University of Nice

Alma Linda Contreras-Vanegas, PHD (alc058@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Jerry L. Cook, PHD (bio_jlc@shsu.edu), *Distinguished Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Colorado State Univ-Pueblo; BS, Colorado State Univ-Pueblo

Tamara J. Cook, PHD (bio_tjc@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Univ of Nebraska-Lincoln; BS, Univ of Nebraska-Lincoln

Brian Jay Cooper, PHD (bio_bjc@shsu.edu), *Associate Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Virginia Polytechnic&State U; MS, Virginia Polytechnic&State U; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Beth L Cory, PHD (blc006@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, University of Virginia - SFS; MS, Florida State University; BS, Liberty University

Thomas H Cox, PHD (thc001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, University at Buffalo, Suny; MA, University at Buffalo, Suny; BA, Birmingham-Southern College; BS, Birmingham-Southern College; BS, Birmingham-Southern College

Jaime Leigh Coyne, PHD (jlb110@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Stephen F Austin University; BS, Sam Houston State University

Miltonette Olivia Craig, PHD (moc006@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; JD, Georgia State University; MS, Florida Int'L Univ; BA, Spelman College; BA, Spelman College

Kyle Ann Craig-Bogard, MFA (kac118@shsu.edu), *Associate Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Univ of Washington; BA, Baldwin-Wallace College

Nicholas Crawford, PHD (nxc082@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Harvard University; MA, Harvard University; BA, New York University

James William Crosby, PHD (jwc014@shsu.edu), *Professor of Psychology and Associate Dean CHSS*, *Department of Psychology & Philosophy*, PHD, Oklahoma State University; MS, Abilene Christian University; BS, Abilene Christian University

Kevin Grant Crouch, MFA (kevincrouch@shsu.edu), *Associate Professor of Theatre*, *Department of Theatre & Musical Theatre*, MFA, New York University; BFA, Sam Houston State University

Dixuan Cui, PHD (dxc164@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Purdue University; MS, Purdue University; BS, Purdue University; BS, Purdue University

George E Curry, MFA (gcurry@shsu.edu), *Assistant Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Boston University; BFA, Sam Houston State University

D

Lisa Joanne Dahlgren, PHD (lxv024@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; MA, Univ of Hawaii At Manoa; BA, Univ of Hawaii At Manoa

Ronald Jude Daigle, PHD (daigle@shsu.edu), *Distinguished Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Texas Tech University; BS, Univ of South Alabama

Michael Ulan Genialovich Dakeev, MS (dakeev@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, MS, Univ of Northern Iowa; BS, Intl Black Sea University; DTECH, Univ of Northern Iowa

Jane C Daquin, PHD (jxd161@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BA, University of Albany, Suny; BA, University of Albany, Suny

Jay Tyler Davidson, PHD (jxd115@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, West Virginia University; MS, West Virginia University; BS, Shippensburg University

Patrick Rhodes Davis, PHD (davisp@shsu.edu), *Associate Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, PHD, East Carolina Univ; BS, Brigham Young University

Juan D Daza Vaca, PHD (jdd054@shsu.edu), *Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Puerto Rico-Rio Piedra; MS, Univ of Puerto Rico-Rio Piedra; BS, Universidad del Valle

Gergana Mircheva Deevska, PHD (gmd020@shsu.edu), *Associate Professor of Biochemistry and Molecular Biology*, *Department of Molecular & Cellular Biology*, PHD, The High Commission of Attestation, Bulgaria; MSC, St. Kliment Ohridksi Sofia University; BSC, St. Kliment Ohridksi Sofia University

Fatih Demiroz, PHD (fxd009@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Central Florida; MPA, Univ of Central Florida; BA, Yeditepe University

Michael T Demson, PHD (mtd007@shsu.edu), *Professor of English*, *Department of English*, PHD, Grad Sch & Univ Center; MA, Grad Sch & Univ Center; BA, Reed College

Furjen Deng, PHD (soc_fjd@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Purdue University; MS, Purdue University; BA, National Taiwan University

James Blackman Dent, PHD (jxd087@shsu.edu), *Associate Professor of Physics*, *Department of Physics & Astronomy*, PHD, Texas A&M University; BS, Missouri Univ of Sci and Tech

Cosmas B Domonaamwin Dery, PHD (cdery@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Calgary; MA, Univ of Lethbridge; BA, University of Ghana

Jennifer Johnson Didier, PHD (jennifer.didier@shsu.edu), *Professor of Kinesiology; Chair of Kinesiology*, *Department of Kinesiology*, PHD, LSU & A&M College; MS, Texas A&M University; BS, Texas A&M University

Ali Dinc, PHD (axd206@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Anadolu University; MBA, University of The People; BS, Middle East Technical Univ

Brandy Guntel Doleshal, PHD (bdoleshal@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Texas At Austin; BA, Indiana University; BS, Indiana University

John C Domino, PHD (pol_jcd@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Miami University; MA, Eastern Kentucky University; BA, Florida-Atlantic U

Robert E. Donahoo, PHD (eng_rxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Duke University; MA, Duke University; BA, Baylor University; BA, Baylor University

Melissa Paige Donham, PHD (mpd028@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Baylor University; MA, Baylor University; BA, Univ of Mary Hardin Baylor

Karen M Douglas, PHD (kmd007@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Diane Dowdey, PHD (eng_dxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Wisconsin-Madison; MA, Univ of Missouri-Columbia; BA, Texas Christian University; BA, Texas Christian University

Charlotte M. Drumm, MFA (art_cmd@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Florida State University; BA, Louisiana College

Lei Duan, PHD (lxd042@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Syracuse University; MPHIL, Syracuse University; MA, Univ of Massachusetts-Amherst; BA, Nankai University

Xiaoman Duan, PHD (xxd002@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Oklahoma-Norman; MA, Univ of Oklahoma-Norman; BS, Nankai University

Patricia Marie Durham, PHD (pmd006@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M-Corpus Christi; MS, Texas A&M-Corpus Christi; BS, Texas Tech University

E

Paul William Eaton, PHD (pwe003@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, LSU & A&M College; MED, Univ of Maryland-College Park; BA, Univ of Minnesota-Twin Cities

Thomas S Edelberg, PHD (edelberg@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Indiana University; MA, California St Un-Northridge; BA, Univ of Calif-Los Angeles

William D. Edgington, EDD (wedgington@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Midwestern State University; BSED, Texas Christian University

Jessica S Elkayam, PHD (jse018@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Villanova University; MA, Villanova University; BA, Depaul University

Susan G Elkins, MLIS (sge004@shsu.edu), *Associate Professor, Newton Gresham Library*, *Department of Library Technical Services*, MLIS, Univ of S Carolina-Columbia; BA, Brigham Young University

William A Ellegood, PHD (wxe002@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Missouri-St Louis; MBA, Ball State University; BS, Kettering University

Hatem Abdelrahman Omar Elshabrawy, PHD (hxe007@shsu.edu), *Assistant Professor of Microbiology, Immunology and Pathology*, *Department of Molecular & Cellular Biology*, PHD, Univ of Illinois-Chicago; BPHARM, Cairo University

Mevhibe Pinar Emiralioglu, PHD (mpe005@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Chicago; MA, Univ of Chicago; MA, Bilkent University; BA, Bogazici University

Trevor Kendrick England, PHD (txe008@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Kennesaw State University; JD, Nashville School of Law; MS, Univ of Connecticut; LLM, Univ of Alabama-Tuscaloosa; BS, Tennessee Tech University; BS, Tennessee Tech University

Jason S Enia, PHD (jason.enia@shsu.edu), *Professor and Chair of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Fordham University; BA, Univ of Dayton; BA, Univ of Dayton

Gulden Esat, PHD (gxe020@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MED, Univ of Massachusetts-Amherst; BA, Bogazici University

Bryan Scott Stevens Espinosa, PHD (bse013@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of North Texas; MA, Univ of North Texas; BM, Univ of North Texas

Charlotte Rebekah Esplin, PHD (cre032@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Brigham Young University; MS, Brigham Young University; BS, Brigham Young University

Brent Cullen Estes, PHD (bce001@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Florida State University; MSS, U.S. Sports Academy; BS, Faulkner University

F

Hui Fang, PHD (hfang@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Houston-Main; ME, Univ of Houston-Main; MS, Zhejiang University; BS, Zhejiang University

Syed Hasib Akhter Faruqui, PHD (shf006@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Texas-San Antonio; MSC, Univ of Texas-San Antonio; BS, Khulna University of Engineering & Technology Bangladesh

Wen Feng, PHD (wxf008@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Kansas; MA, Univ of Kansas; BS, Beijing Normal University

Linda Gail Fergus, PHD (lgf011@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, LSU & A&M College; MS, Texas Woman's University; BS, LSU & A&M College

Maria M Feu Lopez, PHD (mmf017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Hood College; BA, Universidad de Barcelona

Rebecca L Finley, MFA (rlf001@shsu.edu), *Professor of Photography and Chair of Art*, *Department of Art*, MFA, San Francisco Art Inst; MFA, San Francisco Art Inst; BA, Univ of Tennessee-Knoxville; BA, Univ of Tennessee-Knoxville

Jessica Caitlin Fleming, PHD (jcc063@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Sam Houston State University; PHD, Purdue University; MA, Sam Houston State University; BS, Sam Houston State University

Jamile Marmitt Forcelini, PHD (forcelini@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Florida State University; MA, Florida State University; BA, University of Passo Fundo

Andrea S Foster, PHD (asf004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Texas A&M University

Mark W. Frank, PHD (eco_mwf@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; BS, Texas A&M University

Barry Friedman, PHD (phy_baf@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Illinois-Urbana; MS, Univ of Illinois-Urbana; BA, Rice University

Tiffany Nicole Fruge Jones, PHD (tfjones@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Baylor University; MS, McNeese State University; BS, McNeese State University

Matthew Bryan Fuller, PHD (mbf005@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Illinois State University; MS, Texas A&M University; BA, Texas A&M University

Mary C Funck, PHD (mcf012@shsu.edu), *Associate Professor of Finance and Acting Chair, Finance and Banking*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Western Illinois University; MS, Western Illinois University; BS, Western Illinois University

Marcus James Funk, PHD (mjf023@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Trinity University

G

Di Gao, PHD (dxg085@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, North Dakota State University; MA, Univ of Missouri-Columbia; BEC, Tianjin University; BBA, Tianjin University

Lesley Ann Gardiner, MD (lesley.gardiner@shsu.edu), *Assistant Professor of Pediatrics*, *Department of Primary Care & Clinical Medi*, MD, Texas A&M University; BS, Texas A&M-Corpus Christi

Jeffrey A Gardner, PHD (jag175@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Georgia; MA, Univ of Georgia; BA, Brigham Young University-Idaho

Hope Knight Garner, JD (hlk016@shsu.edu), *Assistant Professor of General Business and Finance*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BBA, Baylor University

Randall L Garner, PHD (rgarner@shsu.edu), *Professor of Criminal Justice and Criminology and Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Houston-Main; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Marcos Esteban Garza Madrid, PHD (marcos.garza@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, Instituto Tecnologico de Monterrey; MD, Instituto Tecnologico de Monterrey

Yvonne Garza-Chaves, PHD (yxg002@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MSW, Our Lady of Lake University; BSW, Univ of Texas-Pan American

Melissa Dawn Gatlin, PHD (mdg089@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Capella University; MED, Stephen F Austin University; MBA, Univ of St Thomas; BBA, Stephen F Austin University

Eduardo Geraldo de Campos, PHD (exg248@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Sao Paulo; MS, University of Sao Paulo; BS, University of Sao Paulo

Hannah R Gerber, PHD (hrg004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Alabama-Tuscaloosa; MS, Florida State University; BA, Florida State University

Brian K Gibbs, PHD (bxg012@shsu.edu), *Professor of Music and Acting Associate Dean, CAM*, *School of Music*, PHD, Walden University; MS, Amberton University; BM, Southern Methodist University

Joshua M Gilliland, PHD (jmg177@shsu.edu), *Assistant Professor Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, LSU & A&M College; MS, Western Kentucky University; BS, University of Tulsa

Melissa Catharine Glasscock, MFA (mxg102@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Savannah College of Art & Desi; BFA, Univ of Central Florida

Amber Joyce Godwin, PHD (ajg007@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Univ of West Florida

Fidel Gonzalez, PHD (fxg001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin

Darren P Grant, PHD (dgrant@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Florida State University; BS, Florida State University

Nicholas Alexander Graves, MFA (nag023@shsu.edu), *Associate Professor of Theatre and Chair, Theatre & Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Indiana University-Bloomington; BFA, Abilene Christian University

Adele Renee Gravois, PHD (rgl003@shsu.edu), *Associate Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Virginia Polytechnic&State U; MBA, Univ of Houston-Main; BA, Southeastern Louisiana Univ.; BA, Southeastern Louisiana Univ.

Salandra Deshawn Grice-Johnson, PHD (sxg247@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; EDM, Texas A&M University; BA, Univ of Texas-San Antonio

Allan David Grogan, PHD (stdadg27@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Concordia University-Canada; MS, Concordia University-Canada; MBA, Sam Houston State University; BS, Sam Houston State University

Dustin E Gross, PHD (deg013@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Texas At Austin; BS, Univ of Arizona

Elizabeth A Gross, PHD (eag041@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Wayne State University; MLIS, Wayne State University; BA, Northern Michigan University

Ross Joseph Guida, PHD (ross.guida@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MS, Univ of Nevada-Las Vegas; BA, Univ of Wisconsin-Eau Claire

Christina Marie Gushanas, PHD (cgushanas@shsu.edu), *Eleanor and Charles Garrett Endowed Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Lamar University

Jose Antonio Gutierrez, PHD (jag063@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Texas-San Antonio; MS, Univ of Texas-San Antonio; BBA, Univ of Texas-San Antonio

H

Donovan C Haines, PHD (dch009@shsu.edu), *Professor and Chair of Chemistry*, *Department of Chemistry*, PHD, Wichita State University; BS, Wichita State University

Mark S Hainline, PHD (msh004@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MS, Texas Tech University; BS, Sam Houston State University

Sirkka Helena Halmari, PHD (halmari@shsu.edu), *Distinguished Professor of English*, *Department of English*, PHD, Univ of Southern California; MA, Univ of Southern California; MA, California St Un-San Bernardin; MSS, University of Tampere; MA, University of Tampere; BA, University of Tampere

James Michael Harper, PHD (jmharper@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Idaho; BS, Suny College At Geneseo

John P Harris, PHD (jph020@shsu.edu), *Associate Professor of Geology of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Texas A&M University; MS, Univ of Arkansas-Fayetteville; BS, Univ of Arkansas-Fayetteville

Katie Lee Ann Harris, MS (stdkld13@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, MS, Sam Houston State University; BBA, Sam Houston State University

Elizabeth Noel Hartsell, PHD (enh033@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Florida; MA, Univ of Florida; BA, North Carolina State Univ

Oscar J Harvin, PHD (ojh002@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Florida-Atlantic U; MBA, Univ of N Florida; BS, Bethune-Cookman University

Sharmin Hasan, PHD (sxh130@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Tokyo; MS, Univ of Tokyo; BSC, Univ of Rajshahi

Cherine Hatem, PHD (cxh164@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Case Western Reserve Univ; BS, John Carroll University

Deborah A. Hatton, MA (hatton@shsu.edu), *Instructor of Mass Communication; Acting Associate Chair, MCOM*, *Department of Mass Communication*, MA, Univ of Texas At Tyler; BS, East Texas A&M

Damon Martin Hay, PHD (dhay@shsu.edu), *Associate Professor and Chair of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Texas At Austin

Joshua S Haynes, PHD (jsh064@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Georgia; MA, Univ of Mississippi; BA, Tulane University

Charles Victor Heath, PHD (cvh003@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Tulane University; MA, Tulane University; BA, Tulane University

Dustin Michael Hebert, PHD (dmh104@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; EDSP, LSU & A&M College; MED, McNeese State University; BS, McNeese State University

Emily Catherine Howes Heilman, DM (ech035@shsu.edu), *Assistant Professor of Music*, *School of Music*, DM, Florida State University; MM, Univ of Louisville; BM, Univ of Louisville

Cassy Daniels Henderson, PHD (cdh045@shsu.edu), *Professor and Acting Chair of Accounting*, *Department of Accounting*, PHD, Univ of Texas-El Paso; BBA, Univ of Texas-El Paso

Craig E Henderson, PHD (ceh003@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of North Texas; MA, Hardin Simmons University; BS, Howard Payne University; BS, Howard Payne University

Susan Elizabeth Henderson, PHD (shenderson@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Sam Houston State University; MA, Hardin Simmons University; BS, Stephen F Austin University

Shaina Marie Herman, PHD (sxh169@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, University of Albany, Suny; MA, University of Albany, Suny; BA, Indiana Univ of Pa

Mayrena Isamar Hernandez, PHD (mih012@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Wisconsin-Madison; MPH, Kansas State University; BS, Univ of Texas-Arlington

Desiree Gretchen Hickman, EDD (dgh029@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Jackson State University; MS, Jackson State University; BS, Alcorn State University

Darci N Hill, PHD (eng_dnh@shsu.edu), *Professor of English*, *Department of English*, PHD, Texas Woman's University; MA, Texas State Univ-San Marcos; BA, Texas State Univ-San Marcos; BA, Texas State Univ-San Marcos

Joseph C Hill, PHD (jch031@shsu.edu), *Associate Professor and Chair of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Missouri-Columbia; PHD, Univ of Missouri-Columbia; MS, Univ of Tennessee-Knoxville; MS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville

Sandy Purdum Hinkley, PHD (sxh080@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, Florida State University; MED, Univ of Central Florida; BMED, Florida State University

Jamie H Hinojosa, MD (jaime.hinojosa@shsu.edu), *Assistant Professor of Anatomy and Histology*, *Department of Clinical Anatomy*, MD, Univ of Texas HSC-Houston; MS, Lincoln Memorial University; BS, Univ of Texas-Brownsville

Meagan Elizabeth Hinze, PHD (meh066@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Cornell University; MS, Cornell University; BS, Butler University

Sarah Anne Hirsch, PHD (sah110@shsu.edu), *Assistant Professor of Nursing*, *School of Nursing*, PHD, Capella University; MSN, Univ of Texas-Arlington; BSN, Texas Tech Univ-Hlth Sci Cntr

Christopher Eugene Hobbs, PHD (ceh079@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Texas A&M University; BS, Angelo State University

Tracey Samantha Hodges, PHD (traceyhodges@shsu.edu), *Associate Professor of Curriculum and Instruction*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Carly Ann Hoffmann, PHD (cahoffmann@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas Tech University; BS, Texas A&M University

Victoria Smith Hollas, PHD (torihollas@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; BA, Houston Christian University

Melinda Ann Holt, PHD (mxm014@shsu.edu), *Professor of Statistics and Dean, COSET*, *Department of Mathematics & Statistics*, PHD, Baylor University; MA, Baylor University; BA, Baylor University

Peggy Philpot Holzweiss, PHD (pholzweiss@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Kaitlin Ann Hopkins, PHD (kah147@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Stephen F Austin University; BS, Stephen F Austin University

Rachel Michelle Houston, PHD (rmh034@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Univ of Texas At Dallas

Henry E. Howey, DMA (mus_heh@shsu.edu), *Professor of Music*, *School of Music*, DMA, University of Iowa; MMUS, Univ of Illinois-Urbana; BMUS, Univ of Illinois-Urbana

TzeLi Hsu, PHD (thsu@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Florida State University; MS, Mississippi State University; BA, National Taiwan University

Yao Huang, PHD (yxh051@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Florida State University; MS, The University of Memphis; BA, University of Electronic Science & Tech of China

Caleb George Hubbard, PHD (cgh034@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Oklahoma-Norman; MA, West Texas A&M State Univ; BS, West Texas A&M State Univ

Adam L Hubrig, PHD (axh151@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BA, Concordia University

Lesley L Hughes, PHD (llh036@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of Wisconsin-Madison; DMA, Univ of Wisconsin-Madison; MA, Univ of Wisconsin-Madison; BM, Univ of Kansas

Sheree Robyn Hughes, PHD (sxh039@shsu.edu), *Professor and Chair of Forensic Science*, *Department of Forensic Science*, PHD, Bond University; BS, University of Queensland (The)

I

Laura Theresa Iesue, PHD (lti002@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Miami; MA, New Mexico State University; BS, Ohio State University

Jason R Ingram, PHD (jri004@shsu.edu), *Professor and Chair of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MA, Southern Illinois U-Carbondale; BA, Southern Illinois U-Carbondale

ABM Rezbaul Islam, PHD (ari014@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of North Texas; MS, Ajou University; BSC, Shahjalal Univ of Sci & Techno

J

Farid Jahantab, PHD (fxj007@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Texas-El Paso; MA, London Metropolitan University; BE, Khaje Nasir Toosi University of Technology

Carol Renee James, PHD (phy_crj@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Rice University

William A. Jasper, PHD (mth_waj@shsu.edu), *Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Univ of Southern California; BS, Lafayette College

Kurt R Jesswein, PHD (jesswein@shsu.edu), *Associate Professor of Finance and Acting Chair, Econ & Intl Business*, *Department of Finance & Banking*, PHD, Univ of S Carolina-Columbia; MIB, Univ of S Carolina-Columbia; BBA, Univ of Wisconsin-Whitewater

Haodi Jiang, PHD (hxj024@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, New Jersey Institute of Techn; MS, Florida Int'L Univ; BE, Southwest University

Jonathan Johnson, PHD (jcj055@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Texas At Austin; MS, Univ of Texas-Arlington; BS, Univ of Texas At Dallas

Robyn MacKenzie Johnson, PHD (rmj036@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Calif-Riverside; AM, Univ of Tennessee-Chattanooga; BA, Depaul University

Stacy Horany Johnson, MS (shjohnson@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MS, Univ of North Texas; BS, Tulane University

Steve J Johnson, PHD (sjj008@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Utah; MS, Univ of Nebraska-Lincoln; BA, Union College

Carla D Jones, PHD (cdj033@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Arizona State University; MBA, Northwestern University; BS, California St Un-Northridge

Nathan P Jones, PHD (nxj008@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; BA, Univ of Calif-Berkeley

Brian Matthew Jordan, PHD (bmj018@shsu.edu), *Associate Professor and Chair of History*, *Department of History*, PHD, Yale University; MA, Yale University; MPHIL, Yale University; BA, Gettysburg College

Maribeth Frances Jorgensen, PHD (mxj040@shsu.edu), *Associate Professor of Counselor Education and Assistant Dean, COED*, *Department of Counselor Education*, PHD, The University of South Dakota; MSED, Univ of Nebraska-Kearney; BS, Univ of Nebraska-Kearney

Praphul Joshi, PHD (pxj015@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of S Carolina-Columbia; MPH, Univ of S Carolina-Columbia; BDS, Bangalore University

K

Ram Chandra Kafle, PHD (rckafle@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MS, Univ of Akron; MS, Tribhuvan University; BS, Tribhuvan University

Timothy S. Kalafut, PHD (tim.kalafut@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Texas A&M University; BA, Whitworth College

Barbara Alicja Kaminska, PHD (bak018@shsu.edu), *Associate Professor of Art*, *Department of Art*, PHD, Univ of Calif-Santa Barbara; MA, University of Warsaw

Ebrahim Parvaresh Karan, PHD (epk008@shsu.edu), *Quanta Endowed Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Georgia Inst of Tech; MSC, Tehran Polytechnic; BSC, Tehran Polytechnic

Anand Bahadur Karki, PHD (abk019@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, University of Tulsa; MS, Tribhuvan University; BS, Tribhuvan University

Scott Aaron Kaukonen, PHD (kaukonen@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Univ of Missouri-Columbia; MFA, Univ of Arizona; BA, Hope College

Masoud Kazemzadeh, PHD (mxk002@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Univ of Minnesota-Twin Cities

Rosanne S Keathley, PHD (hpe_rsk@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Texas A&M University; MA, Sam Houston State University; BAT, Sam Houston State University

Stanley F. Kelley, PHD (sfkelley@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Owen Joseph Kelly, PHD (ojk003@shsu.edu), *Assistant Professor of Nutrition*, *Department of Molecular & Cellular Biology*, PHD, University College Cork; BSC, University College Cork

Khalid Mahmood Khan, DPH (kxk051@shsu.edu), *Associate Professor of Public Health*, *Department of Public Health*, DPH, Columbia University; MSC, University of Dhaka; BSC, University of Dhaka

Parichehr Kianian, PHD (pkianian@shsu.edu), *Assistant Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Houston-Main; MBA, Univ of Tehran-Iran; BSC, Sharif Univ of Technology

Bit Na Kim, PHD (bitna.kim@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MA, Chungbuk National University; BA, Chungbuk National University

Dianna Lynn Kim, JD (dlk011@shsu.edu), *Associate Professor, Newton Gresham Library*, *Department of Library Public Services*, JD, Mitchell Hamline Sch of Law; MS, Univ of North Texas; BS, Illinois State University

Doo Young Kim, PHD (dkim@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Ball State University; BS, Gachon University

Emily Taehee Kim, MFA (thkim@shsu.edu), *Professor of Art*, *Department of Art*, MFA, LSU & A&M College; BFA, Hanyang University

Min Hyun Kim, PHD (mxk056@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of New Mexico; MA, California St Un-San Bernardin; BPED, Kyung Hee Univ Seoul; BPED, Kyung Hee Univ Seoul

Nam Young Kim, PHD (nyk001@shsu.edu), *Professor and Chair of Mass Communication*, *Department of Mass Communication*, PHD, LSU & A&M College; MA, Penn State Un-Univ Park; MAC, Sookmyung Women's University; BA, Sookmyung Women's University

Youn Oh Kim, PHD (younoh@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Ewha Womans Univ.

Kyle Douglas Kindred, DMA (kdk001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Texas At Austin; MM, Univ of Texas At Austin; BM, Wichita State University

Kimberly Campbell Kinnaird, PHD (kck017@shsu.edu), *Assistant Professor of Library Science*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BS, Texas A&M University

Alexander Boone Kinney, PHD (akinney@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Arizona; MA, Univ of Arizona; BA, Penn State University

Tracy Rouly Knight, EDD (trk033@shsu.edu), *Associate Professor of American Sign Language*, *Department of World Languages & Cultures*, EDD, Lamar University; MS, Lamar University; BA, Gallaudet University

Ginger Y Ko, PHD (gingerko@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Georgia; MFA, Univ of Wyoming; BS, Indiana University-Bloomington; BA, Univ of Calif-Los Angeles

Steven David Koether, PHD (stevenkoether@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Gerald Kohers, PHD (kohers@shsu.edu), *Professor of Management Information Systems and Chair, Dept of Mgmt and Mktg*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Virginia Polytechnic&State U; MBA, Virginia Polytechnic&State U; BS, Mississippi State University

Stuti Subbaiah Kokkalera, PHD (sxk078@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Northeastern University; LLM, Georgetown University; LLB, Gujarat University

Andrey Vitalyevich Koptelov, PHD (axk022@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Academy of Pedagogical Science; BED, Kirov State Pedagogical Inst

Colton Ellis Krawietz, PHD (cek043@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Texas At Austin; MED, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, LSU & A&M College

Naomi Lynne Krawzik, PHD (stdnlv11@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Sam Houston State University; BS, Alma College

Eroll Kuhn, PHD (exk026@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of N Carolina-Chapel Hill; MA, Univ of N Carolina-Chapel Hill; BA, Vassar College; BA, Vassar College

Lana Kuscer, DMA (lxk025@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of North Texas; MM, Hochschule fur Musik und Theat; BM, Royal College of Music

L

Kimberly N LaPrairie, PHD (knl007@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; MED, Univ of Louisiana-Lafayette; BBA, Henderson State University

Leena Jo Landmark, PHD (landmark@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

John W Lane, DMA (jwl002@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of North Texas; BM, Stephen F Austin University

Mae Ann Lane, EDD (mal024@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, East Texas A&M; BA, Abilene Christian University

Hillary Anne Langley, PHD (hlangley@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of N Carolina-Chapel Hill; BA, Univ of N Carolina-Chapel Hill

Nicolas J Lantz, MFA (nick.lantz@shsu.edu), *Professor of English*, *Department of English*, MFA, Univ of Wisconsin-Madison; BA, Lewis & Clark College

Victoria Pettersen Lantz, PHD (vplantz@shsu.edu), *Associate Professor and Acting Associate Chair of Theatre*, *Department of Theatre & Musical Theatre*, PHD, Univ of Wisconsin-Madison; MA, Univ of Wisconsin-Madison; BA, Lewis & Clark College

Wanda Edelis Leal, PHD (wel004@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BS, Florida State University

Heejin Lee, PHD (heejin.lee@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; LLB, Korean National Police Univers

Peter Scott Lehmann, PHD (psl003@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Furman University

Mark R Leipnik, PHD (geo_mrl@shsu.edu), *Professor of Geography and Geology*, *Department of Environmental & Geosciences*, PHD, Univ of Calif-Santa Barbara; MBA, Rice University; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Patrick J Lewis, PHD (pjl001@shsu.edu), *Professor of Biology, Associate Dean of Honors College*, *Department of Biological Sciences*, PHD, Duke University; MS, Texas Tech University; BA, Texas Tech University

Chi-Sing Li, PHD (dcl001@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, East Texas A&M; MED, Univ of Louisiana-Monroe; MED, Univ of Louisiana-Monroe; BA, Univ of Texas At Austin

Peiyao Li, PHD (pxl043@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; MPA, Wuhan University

Fan Liang, MS (fxl027@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Univ of Massachusetts-Dartmout; BS, Northwestern Polytechnic Univ; DSC, Towson State University

Gan Liang, PHD (phy_gnl@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Rutgers University; BS, Beijing University

Sungdae Lim, PHD (slim@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Florida State University; MPA, Florida State University; BPA, Soongsil University

Jeffrey L Littlejohn, PHD (jll004@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Arkansas-Fayetteville; MA, Univ of Arkansas-Fayetteville; BA, Belmont University

Qingzhong Liu, PHD (qxl005@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, New Mexico Inst/Mining/Tech; ME, Sichuan University; BE, Northwestern Polytechnic Univ

Xing Liu, MS (xxl020@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Lawrence Inst. of Tc; BE, Shanghai Univ of Engr Science; DSC, Towson State University

Yu Liu, PHD (yxl068@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, Emory University; MPH, Yale University; BBA, Nankai University

Mario G Loomis, MD (mxl107@shsu.edu), *Associate Professor of Anatomy and Chair, Clinical Anatomy*, *Department of Clinical Anatomy*, MD, Univ of Vermont&State Agr Col; AB, Cornell University

Tabbetha Dawn Lopez, PHD (tdl030@shsu.edu), *Assistant Professor of Food Science & Nutrition and Dietetics Director*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Texas Tech University; BS, Univ of Houston-Main; BS, Univ of Houston-Main

Wojciech Lorenc, MFA (wlorenc@shsu.edu), *Professor of Mass Communication*, *Department of Mass Communication*, MFA, Depaul University; BA, Columbia College-Chicago

Anna Hommadova Lu, PHD (anyalu@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; PHD, University of Tsukuba; MA, University of Tsukuba; BA, Minnesota State Un-Moorhead

Connor James Lubojacky, PHD (cjl076@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Houston-Main; MSC, Univ of Edinburgh; BS, Univ of Texas At Dallas; BS, Univ of Texas At Dallas; BS, Univ of Texas At Dallas

Russell P Lundberg, PHD (rxl027@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Pardee Rand Graduate School; MPHIL, Pardee Rand Graduate School; MPP, Univ of Maryland-College Park; BA, Hope College

William I Lutterschmidt, PHD (bio_wil@shsu.edu), *Distinguished Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Oklahoma-Norman; MS, Southeastern Louisiana Univ.; BS, De Sales University

Aaron Matthew Lynne, PHD (aml027@shsu.edu), *Professor and Chair of Biological Sciences*, *Department of Biological Sciences*, PHD, North Dakota State University; BS, North Dakota State University

M

Junkun Ma, PHD (jxm158@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Calif-San Diego; MS, N China Electric Power Univ; BE, Tsinghua University

Martin E Malandro, PHD (mem037@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Dartmouth College; AM, Dartmouth College; BS, Texas Tech University

Tiffany Robin Nicole Maldonado, PHD (tmaldonado@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Houston-Main; BA, Rice University; BA, Rice University

Enrique Mallen, PHD (edm012@shsu.edu), *Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Cornell University; MA, Cornell University; MA, Universidad de Sevilla

Ananda Bandulasiri Manage, PHD (amanage@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; MS, Sam Houston State University; BS, University of Kelaniya

Balasundram Maniam, PHD (gba_bxm@shsu.edu), *Distinguished Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Arkansas State University; BS, Arkansas State University

Ryan J Marek, PHD (rxm147@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Kent State University; MA, Kent State University; BS, John Carroll University

Eric L Marsh, MFA (elm008@shsu.edu), *Professor of Theatre*, *Department of Theatre & Musical Theatre*, MFA, Western Illinois University; BA, California St Un-Chico

Taylor Elizabeth Martin, PHD (taylor.martin@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Rice University; MA, Rice University; BA, Univ of Rochester; BS, Univ of Rochester

Cynthia Martinez-Garcia, EDD (cmg021@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Texas A&M-Kingsville; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

Nara Martirosyan, EDD (nxm021@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MS, Grambling State Univ; BA, Tatev Pedagogical University

Giuseppe Martone, PHD (gxm120@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Southern California; MS, University of Rome, Sapienza; BS, University of Rome, Sapienza

Huda Masood, PHD (hxm040@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, York University; MA, Adler University, Chicago; BSC, York University

David C Mayes, PHD (his_dcm@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Wisconsin-Madison; MA, Univ of Richmond; BA, Univ of Richmond

Mayra Alexandra Mayr-Eduardoff, PHD (mayra.eduardoff@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Medical University of Innsbruck; MSC, University of Innsbruck; BA, University of Sussex (UK)

William Matthew Mc Inturf, DMA (mus_wmm@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of Houston-Main; BMUS, Univ of North Texas

Joyce Kay McCauley, PHD (edu_jkm@shsu.edu), *Distinguished Professor of Education*, *Department of Teaching & Learning*, PHD, Texas Woman's University; MED, Univ of Guam; BA, Univ of South Florida

Laura M McCrary, MS (lmm154@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Technical Services*, MS, Univ of North Texas; BA, Univ of Houston-Clear Lake

Zoe Nicole McDonald, PHD (znm004@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Vermont&State Agr Col; BA, Univ of Wyoming

Kenneth Bruce McIntyre, PHD (kbm014@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Tulane University; MS, University of Wales; MA, Tulane University; BA, Princeton University

Jessica Ann McQueston, PHD (jam391@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Wisconsin-Madison; MA, Univ of New Mexico; BSED, Univ of New Mexico; CERT, Univ of New Mexico

Ali Mchiri, PHD (amchiri@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, New Mexico State University; MBA, New Mexico State University; BBA, Univ of Texas-El Paso

Thomas James Meagher, PHD (tjm101@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Connecticut; MA, Univ of Connecticut; BA, Univ of Calif-Berkeley

Melissa L Mednicov, PHD (mmednicov@shsu.edu), *Associate Professor of Art*, *Department of Art*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; BA, Smith College

Sanjay S. Mehta, PHD (mkt_ssm@shsu.edu), *Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of North Texas; MS, Univ of North Texas; MBA, Angelo State University; BS, Angelo State University

Hannah Beth Menendez, MSI (hmenendez@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MSI, Florida State University; MA, Florida State University; BA, Palm Beach Atlantic

Chris C. Michel, MM (mus_ccm@shsu.edu), *Associate Professor of Music*, *School of Music*, MM, Ohio State University; BM, Baylor University

Holly A Miller, PHD (psy_ham@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MA, Morehead State University; BA, Bethel College

Lee Mary Miller, PHD (lee.miller@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; AB, Smith College

Melinda Sue Miller, PHD (lls_msm@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BSED, Univ of Texas At Austin

Scott T Miller, PHD (stm009@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Maryland-College Park; MS, Univ of Maryland-College Park; BA, Rutgers University; BS, Rutgers University

Felicia Leila Mirghassemi, PHD (flm002@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas At Tyler; BS, Univ of Texas At Tyler

Mihail Iliev Mitov, PHD (mim034@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, The High Commission of Attestation, Bulgaria; MSC, St. Kliment Ohridksi Sofia University; BSC, St. Kliment Ohridksi Sofia University

Sambit Mohapatra, PHD (smohapatra@shsu.edu), *Professor and Founding Director of Physical Therapy*, *Department of Kinesiology*, PHD, Univ of Illinois-Chicago; MS, Univ of Illinois-Chicago; BSC, University of Delhi

Geraldine Isabelle Christ Monjardez, PHD (g.monjardez@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Manchester; MS, Cranfield University; BS, University of Cent Lancashire

Ricardo Montelongo, PHD (rxm059@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Indiana University; MS, Texas A&M University; BS, Texas A&M University

Nadav Morag, PHD (nxm040@shsu.edu), *Professor and Chair of Security Studies*, *Department of Security Studies*, PHD, Tel Aviv University; MA, Univ of Calif-Los Angeles; BA, Univ of Calif-Los Angeles

Edward Michael Morin, MFA (emm026@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Syracuse University; BFA, Univ of North Texas

Philip W Morris, PHD (aac_pwm@shsu.edu), *Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Univ of Houston-Clear Lake; MBA, Sam Houston State University; BBA, Sam Houston State University

Jennifer Dydo Morrison, PHD (jdm214@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Nevada-Reno; MS, Western Maryland Col; BS, William & Mary College

David Kelton Moss, PHD (dxm112@shsu.edu), *Associate Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Syracuse University; MS, Univ of Oklahoma-Norman; BS, Centenary College of Louisiana

Momen Ragab Mousa, PHD (mxm363@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, LSU & A&M College; MS, Cairo University; BE, Cairo University

Ashton Michelle Mouton, PHD (amm009@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Purdue University; MA, Colorado State University; BA, Sam Houston State University

Sachin Dheeraj Mudigonda, MFA (sxm259@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, Univ of Texas At Austin; MS, Arizona State University

Falguni Shyamal Mukherjee, PHD (fsm002@shsu.edu), *Associate Dean of The Graduate School, Ombuds, and Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Wisconsin-Milwaukee; MS, Univ of Texas At Dallas; BE, Birla Institute of Tech & Sci

Sureni Visaka Mullegama, PHD (svm013@shsu.edu), *Assistant Professor of Genetics*, *Department of Molecular & Cellular Biology*, PHD, Virginia Commonwealth Univ; BS, Univ of Minnesota-Twin Cities

Philip W Mulvey, PHD (pwm010@shsu.edu), *Associate Professor of Victim Studies*, *Department of Victim Studies*, PHD, Arizona State University; MA, Boston College; BS, Univ of Illinois-Urbana

Mario Alfredo Munoz Rosario, PHD (mam325@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Boston University; MS, Northern Michigan University; BA, Univ of Puerto Rico-Rio Piedra

Audrey D Murfin, PHD (adm034@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Reed College

N

Diana Kay Nabors, EDD (lls_dkn@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Univ of Houston-Main

Arun P Narayanasamy, PHD (apn023@shsu.edu), *Assistant Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Texas-Arlington; MS, Univ of Texas-Arlington; MA, Univ of Texas-Arlington; MS, Univ of Texas-Arlington; BE, Univ of Madras; CERT, Univ of Texas-Arlington

Carroll F. Nardone, PHD (cfnardone@shsu.edu), *Professor of English and Associate Dean, CHSS*, *Department of English*, PHD, New Mexico State University; MA, Ohio State University; BA, Univ of Texas-El Paso

Chelsey Samara Narvey, PHD (cxn042@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; BA, Concordia University

Hiranya K Nath, PHD (eco_hkn@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Southern Methodist University; MA, Southern Methodist University; MPHIL, Jawaharlal Nehru University; MA, University of Delhi; BA, University of Delhi

Adam P Natoli, PHD (apn017@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Adelphi University; MA, Adelphi University; MS, Eastern Michigan University; BA, Rider University

John Charles Navarro, PHD (jxn044@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Louisville; MS, Illinois State University; BS, Illinois State University

Velvet A Nelson, PHD (van001@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Kent State University; MA, East Carolina Univ; BSBA, West Liberty State College

Steve A Nenninger, PHD (san009@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Southern Illinois U-Carbondale; MBA, Southeast Missouri State Univ; BSBA, Southeast Missouri State Univ

Diane L. Neudorf, PHD (bio_dln@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, York University; MSC, University of Manitoba; BSC, University of Manitoba

Adele Nickel, MFA (axn051@shsu.edu), *Assistant Professor of Dance*, *Department of Dance*, MFA, Univ of Washington; BA, New School/Soc Rsrch

Lautrice Mc Carty Nickson, PHD (lmn005@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Prairie View A&M University; MED, Sam Houston State University; MED, Loyola University Maryland; BS, Mississippi State University

Andrew M Noble, MFA (amn008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Florida State University; BA, Univ of South Florida

Dionne L Noble, MFA (dln008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Univ of Utah; BA, Univ of South Florida

Brooke Elizatbeth Nodeland, PHD (ben012@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of North Texas; BS, Univ of North Texas

Ramona M Noland, PHD (psy_rmn@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Tennessee-Knoxville; BA, Wheeling College

Braden Edward Norris, PHD (benorris9@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Indiana University; MS, Indiana University; MS, Indiana University; BS, Indiana University

Madeline Jade Norris, MLIS (mjn036@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MLIS, Univ of Denver; MA, Boise State University; BA, Gonzaga University

O

April Lynn OBrien, PHD (aprilobrien@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Clemson University; MA, Suny Coll of Buffalo; BA, Grove City College

Suleiman Mahmoud Obeidat, PHD (smo036@shsu.edu), *Fred Pirkle Endowed Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Oklahoma-Norman; MSC, University of Jordan; BS, Jordan University of Sci & Tec

Willard M Oliver, PHD (icc_wmo@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, West Virginia University; MA, West Virginia University; MS, Radford University; BS, Radford University

Seth David Olson, PHD (sxo036@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Kent State University; PHD, Kent State University; MA, The University of South Dakota; BA, Univ of Nebraska-Lincoln

Erin Anderson Orrick, PHD (eorrick@shsu.edu), *Professor and Associate Dean of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MA, Univ of Maryland-College Park; BSCJ, Texas Christian University

Pablo Alberto Ortega Poveda, PHD (pao016@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; BA, Universidad Javeriana

Eric Daniel Owen, MA (ericowen@shsu.edu), *Associate Professor and Executive Director, Newton Gresham Library*, *Department of Non Instructional*, MA, Western Michigan University; MSI, Univ of Michigan; BA, Texas A&M University; BA, Texas A&M University

Erin Elizabeth Owens, MS (eowens@shsu.edu), *Professor, Newton Gresham Library*, *Department of Library Public Services*, MS, Univ of North Texas; BA, Univ of Houston-Main

P

Lillie Vivian Ka Padilla, PHD (lvp005@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Arizona State University; MA, Arizona State University; BA, University of Ghana; BA, University of Ghana

Shyam Bahadur Pandey, PHD (sbp029@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Purdue University; MA, Minnesota State Univ-Mankato; MED, Kathmandu University, Nepal; BED, Tribhuvan University

Timothy R. Pannkuk, PHD (agr_trp@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Brittany Leigh Paris, PHD (blp054@shsu.edu), *Assistant Professor of Animal Science*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Benjamin E Park, PHD (bep013@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Cambridge; MPHIL, Univ of Cambridge; MS, Univ of Edinburgh; BA, Brigham Young University; BA, Brigham Young University

John B Pascarella, PHD (jbp014@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Miami; BA, Univ of Kansas; BS, Univ of Kansas; BS, Univ of Kansas

Erica Ann Pasquini, PHD (exp043@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Southern Mississippi; MS, Ball State University; BS, Univ of New Orleans

Michael W Pass, PHD (mwp006@shsu.edu), *Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Arizona State University; MBA, Georgia State University; ABJ, Univ of Georgia

Emily Ann Peacock, MFA (stdeap16@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BS, Sam Houston State University

Patrick Neal Pearson, MFA (patrickpearson@shsu.edu), *Assistant Professor of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, California St Un-Fullerton; BFA, Sam Houston State University

Recayi Pecen, PHD (regpecen@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Wyoming; MS, Univ of Colorado; MSC, Istanbul Univ; BSC, Istanbul Univ

Ilona Petrikovics, PHD (ixp004@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ Debrecen Med & Health Sci; PHD, Kossuth Laos University; MSC, Univ Debrecen Med & Health Sci

Mary Ann Petron, PHD (map042@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MA, Northwestern University; BSED, Univ of Wisconsin-Madison

Van Vung Pham, PHD (vung.pham@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas Tech University; MS, Politecnico Di Milano; BS, President University

Chi Hoang Do Phan, PHD (chp007@shsu.edu), *Assistant Professor of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of South Florida

Deborah Lynne Phelps, PHD (eng_dlp@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Delaware; MA, Univ of Delaware; BS, Towson State University

Javier A Pinell, DM (jap032@shsu.edu), *Professor of Music*, *School of Music*, DM, Florida State University; MM, Miami University; BM, Wayne State University

Ronald Eric Platt, PHD (eep032@shsu.edu), *Professor and Chair of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Scott D Plugge, DM (mus_sdp@shsu.edu), *Professor and Chair of Music*, *School of Music*, DM, Northwestern University; MM, Northwestern University; BM, Baylor University

Jennifer Karen Pontius, MFA (dnc_jkp@shsu.edu), *Associate Professor and Chair of Dance*, *Department of Dance*, MFA, Florida State University; MA, California St Un-Dominguez Hil; BA, Univ of Alabama-Birmingham

Brett Michael Porter, MS (bxp040@shsu.edu), *Assistant Professor, Library Technical Services*, *Department of Library Technical Services*, MS, Univ of North Texas; BS, Texas A&M Univ-Central Texas

Jalene Paige Potter, PHD (jpp015@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M-Corpus Christi; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

George Prada, MD (gxp073@shsu.edu), *Assistant Professor of Anatomical Sciences*, *Department of Clinical Anatomy*, MD, Universidad Autonoma of Guadalajara; BS, Univ of Illinois-Chicago

Todd P Primm, PHD (tprimm@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Thomas C Prior, MFA (drm_tcp@shsu.edu), *Professor of Theatre*, *Department of Theatre & Musical Theatre*, MFA, Univ of Houston-Main; BFA, Carnegie-Mellon Univ

Bernadette Pruitt, PHD (his_bxp@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Houston-Main; MA, Texas Southern University; BA, Texas Southern University

Q

Uzma Quraishi, PHD (uxq001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Rice University; MA, Rice University; MA, Univ of Houston-Main; BA, Univ of Houston-Main; BA, Univ of Houston-Main

R

Vlad Marius Radoias, PHD (radoias@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Central Michigan Univ; BA, Bucharest Acad of Eco Studies

Javier Ramos, PHD (jxr248@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Univ of Texas At Austin

Ryan Wayne Randa, PHD (rxr042@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; BS, Univ of Wisconsin-Superior

George Kevin Randall, PHD (gkr001@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Iowa State University; MS, Iowa State University; BSED, Illinois State University

Christopher P Randle, PHD (cpr003@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Ohio State University; BA, Hiram College

Stephen H Rapp, PHD (srapp@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Michigan; MA, Univ of Michigan; BA, Indiana University

Christian Werner Raschke, PHD (raschke@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, LSU & A&M College; MS, LSU & A&M College; BS, Southeast Missouri State Univ

Amar Adnan Rasheed, PHD (axr249@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Northeastern Illinois Univ; BS, University of Bagdad

Kathleen Rene Ratajczak, PHD (kxr084@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Univ of Kentucky; MA, Univ of Cincinnati; BA, John Carroll University

Chelsea Gilts Ratcliff, PHD (chelsea.ratcliff@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Trinity University

Shekhar Rathor, PHD (sxr177@shsu.edu), *Assistant Professor of Management Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Florida Int'L Univ; MCA, Panjab University; BS, Himachal Pradesh University

Amy E Ray, PHD (aer066@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Michigan State University; MS, Michigan State University; MED, Texas Christian University; BS, Texas Christian University

Jolene Buxton Reed, PHD (jreed@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of New Mexico; MA, Univ of New Mexico; BS, Brigham Young University

Rebecca Lee Renfro, DMA (rrg012@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Connecticut; MM, New England Consv/Music; BBA, Sam Houston State University; BM, Sam Houston State University

Clare Amparito Resilla, EDD (clr067@shsu.edu), *Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Lamar University; BA, St. Theresa's College

Chad Allen Reynolds, PHD (car020@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Missouri-Columbia; MS, Sam Houston State University; BS, Sam Houston State University

Diego Ribeiro Caetano, DMA (dxr105@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Colorado; MM, Univ of Wyoming; BM, Federal University of Goias

Kathleen Ann Rice, PHD (kar084@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of N Carolina-Charlotte; MS, South Dakota State University; BS, South Dakota-Mines/Tech

Robert J Richardson, PHD (rjr065@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Texas At Austin; MJ, Univ of Maryland-College Park; BA, Baylor University

Shelley Ann Riggs, PHD (sxr142@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of Texas At Austin; BA, Univ of Texas At Austin

Jason Matthew Riley, PHD (jmr099@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Clemson University; MBA, Michigan State University; BA, Iowa State University

Tommy J Robertson, JD (joey_robertson@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BS, Texas A&M University

Petra Rocic, PHD (pxr037@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, Univ of Alabama-Birmingham; PHD, Univ of Alabama-Birmingham; BA, Oberlin College

Mitchel P Roth, PHD (icc_mpr@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Santa Barbara; MA, Univ of Calif-Santa Barbara; BA, Univ of Maryland-College Park

Jared Robert Ruchensky, PHD (jrr107@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Texas A&M University; BA, Creighton University

Danielle Sheldon Rudes, PHD (drudes@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; MA, Univ of New Orleans; BA, Suny At Plattsburgh

ILonka Livia Rus, DMA (lir001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Univ of Houston-Main; BM, Oberlin College

S

Daniel Saenz, DMA (dxs007@shsu.edu), *Associate Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Rice University; BM, Univ of Rochester

Elisa Salem Herrmann, EDD (exh041@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, EDD, Sam Houston State University; MFA, Southern Illinois U-Carbondale; BED, Federal University of Parana

Supun Thamara Samarakoon, PHD (ssamarakoon@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, University of Colombo

Jose Alberto Santiago, EDD (jas083@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas Southern University; MA, Indiana State University; BA, Univ of Puerto Rico-Rio Piedra

Kiran Sapkota, PHD (kxs133@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, University of Iowa; PHD, University of Iowa; MS, University of Iowa; MPH, New Mexico State University; MS, New Mexico State University; MS, Tribhuvan University; BS, Tribhuvan University

Raisa Tasnim Sara, PHD (rts021@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Texas A&M University; MSC, Univ of London - School Econ; BSC, Queen Mary Univ of London

Kristin Amanda Sarvela, DMA (kas192@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Illinois-Urbana; MM, Indiana University-Bloomington; BM, Univ of Illinois-Urbana

Philip Ryan Saucier, MS (ryansaucier@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

David Patrick Saxon, EDD (dps006@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MBA, Appalachian State University; BSBA, Appalachian State University

Amanda Walters Scarbrough, PHD (aes060@shsu.edu), *Associate Professor and Acting Chair of Public Health*, *Department of Public Health*, PHD, Univ of Texas Medical Branch; MHSA, George Washington University; BA, De Pauw University

Stephen Mark Scariano, PHD (sms049@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; BS, Loyola Univ-New Orleans

Misty Sue Schattle, EDD (msb009@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, EDD, Lamar University; MS, Univ of North Texas; BA, Baylor University; BA, Baylor University

Richard Neal Schaugaard, PHD (rschaugaard@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Indiana University; BS, Univ of Washington

Nicholas Leonard Scheel, PHD (nls046@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Wisconsin-Green Bay

Mary Larue Scherer, PHD (mxs168@shsu.edu), *Assistant Professor of Sociology*, *Department of Sociology*, PHD, Univ of Massachusetts-Amherst; MA, Univ of Massachusetts-Amherst; BA, Warren Wilson College

Danica Lee Schieber, PHD (dschieber@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Iowa State University; MA, Minnesota State Univ-Mankato; BA, Austin Peay State University

Aric Lewis Schneller, DMA (als043@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of North Texas; MM, Boston University; MM, Univ of North Texas; BM, Univ of Montana

George Herbert Scott, PHD (ghs003@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Ponce Health Sciences Univ; MS, Ponce Health Sciences Univ; BA, Liberty University

Kyle Anthony Scott, PHD (kas216@shsu.edu), *Assistant Professor of Entrepreneurship*, *Department of Business Admin & Entrep*, PHD, U-Houston Downtown; MBA, Rice University; BA, Univ of Texas At Austin

La-Toya Lorraine Scott, PHD (lls060@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Florida; MA, Univ of South Florida; BA, Florida State University

Nazanin Sedaghatkish, PHD (nazanins@shsu.edu), *Assistant Professor of Economics and International Business*, *Department of Economics & Intl Business*, PHD, Virginia Polytechnic&State U; PHD, Virginia Polytechnic&State U; MSC, Sharif Univ of Technology; BS, Shahid Beheshti University

Abdelilah Salim Sehlaoui, EDD (asehlaoui@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Mohamed Ben Abdellah Univ

Ki Won Seo, PHD (kws014@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; MAC, Korea University; BA, Korea University; BA, Korea University

Narasimha Karpoor Shashidhar, PHD (nks001@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Connecticut; MS, Univ of Connecticut; BE, University of Madras

April A Shemak, PHD (aas004@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Univ of Wisconsin-Madison; BA, Univ of Wisconsin-Madison

Lisa C Shen, MBA (lcs009@shsu.edu), *Associate Professor, Newton Gresham Library; Director, Public Services*, *Department of Library Public Services*, MBA, Sam Houston State University; MLIS, Mcgill University; BC, University of Alberta

William Madsen Shepherd, PHD (shepherd@shsu.edu), *Associate Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Calif-Irvine; MS, Northwestern University; MS, Northwestern University; BA, Northwestern University; BA, Northwestern University; BA, Northwestern University

Karen E Sherrill, PHD (kesherrill@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Florida State University; MS, Florida State University; BS, Rochester Inst of Technology

Ronald E Shields, PHD (rshield@shsu.edu), *Professor of Theatre*, *Department of Theatre & Musical Theatre*, PHD, LSU & A&M College; MA, Bob Jones University; BA, Bob Jones University

Katie Jean Shinkle, PHD (kjs078@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Denver; MFA, Univ of Alabama-Tuscaloosa; BA, Grand Valley State University

Tony R. Shipp, MFA (art_trs@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Florida; BA, Montana State Univ-Billings

Stephen Trent Shotwell, MS (stdsts11@shsu.edu), *Associate Professor, Newton Gresham Library; Acting Director, Library Tech Svcs*, *Department of Library Technical Services*, MS, Univ of North Texas; BS, Sam Houston State University

Zeinab F Shuker, PHD (zfs003@shsu.edu), *Assistant Professor of Sociology*, *Department of Sociology*, PHD, Univ of Calif-Riverside; MA, Univ of Calif-Riverside; MA, The University of Memphis; BA, The University of Memphis

Gabriela Judith Silvestre, PHD (gjs020@shsu.edu), *Assistant Professor of Education*, *Department of Educational Leadership*, PHD, University of Pittsburgh; MED, University of Pittsburgh; CERN, Universidad Nacional Del Lit

Vinu Abraham Simon, DBA (vas048@shsu.edu), *Assistant Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, DBA, University of Manchester; MBA, Cornell University; MS, Southern Methodist University; BTECH, Univ of Kerala

Jessica Annie Simorte, MFA (jxs117@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Cincinnati; BA, University of Saint Mary

Vinoth Kumar Sittaramane, PHD (vks007@shsu.edu), *Professor of Biological Sciences*, *Department of Molecular & Cellular Biology*, PHD, Univ of Missouri-Columbia; DVM, Pondicherry University; MS, Indian Veterinary Research Institute

Shyam Sivankutty Nair, PHD (shyam.nair@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MSC, Kerala Agricultural University; BSC, Kerala Agricultural University

Susana Troncoso Skidmore, PHD (skidmore@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Britni Nicole Skillman, PHD (bns017@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Sam Houston State University

John R Slate, PHD (jrs051@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Univ of Tennessee-Knoxville; MA, Univ of Tennessee-Knoxville; BA, Eastern Illinois University

Andrea Marie Smith, PHD (axs226@shsu.edu), *Associate Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas-Arlington; MSN, Baylor University; BSN, Univ of Texas Medical Branch; BA, Southern Illinois U-Carbondale

Ashly Lynn Bender Smith, PHD (als121@shsu.edu), *Associate Professor Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Louisville; MA, New Mexico State University; BA, Texas State Univ-San Marcos

Gary W. Smith, PHD (gsmith@shsu.edu), *Associate Professor of Computing Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

Sahar Ahmed Soliman, PHD (sxs187@shsu.edu), *Assistant Professor of Pharmacology*, *Department of Physiology & Pharmacology*, PHD, Univ of Georgia; BPHARM, Ain Shams University

Micheil Brian Spillane, PHD (mbs056@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Baylor University; MSED, Baylor University; BS, Univ of Houston-Main

Jennifer Hatchett Stover, PHD (jlh159@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; MAT, Texas Woman's University; BS, Texas Woman's University

Wayman Jerome Stover, DMA (wjs016@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Boston University; MM, Depaul University; BM, Indiana University-Bloomington; BM, Indiana University-Bloomington; DIPL, Yale University

John B Strait, PHD (jbs008@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Georgia; MA, Georgia State University; BA, Wittenberg University

Jeffery W Strawser, PHD (aac_jws@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BBA, Texas A&M University

William R Strawser, PHD (wxs018@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BA, Univ of Texas At Austin

Robert H Stretcher, PHD (fin_rhs@shsu.edu), *Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Tennessee-Knoxville; MBA, Univ of North Alabama; BA, Univ of Tennessee-Knoxville

Susan Dawn Strickland, MLS (lib_sds@shsu.edu), *Associate Professor, Newton Gresham Library*, *Department of Library Public Services*, MLS, Texas Woman's University; BA, Texas A&M University

Abbie Ruth Strunc, PHD (abbie.strunc@shsu.edu), *Professor of Education and Associate Dean, College of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MED, Texas A&M University; BA, Texas A&M University

Kyle J Stutts, PHD (kjs015@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

James Bartlett Stykes, PHD (jbs048@shsu.edu), *Associate Professor and Acting Chair of Sociology*, *Department of Sociology*, PHD, Bowling Green State University; MA, Bowling Green State University; BS, Austin Peay State University

Masahito Sugihara, DM (mxs074@shsu.edu), *Associate Professor of Music*, *School of Music*, DM, Northwestern University; MM, Northwestern University; BM, Temple University

Min Jae Suh, PHD (mjs068@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Virginia Polytechnic&State U; MS, Stanford University; BENGR, Yeungnam University

Jeffrey M Sullivan, PHD (jms107@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MS, Univ of North Texas; BA, Univ of Texas At Austin

Laura Louise Sullivan, JD (lls003@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; MBA, Sam Houston State University; BBA, Univ of Houston-Main

Eric P Svensen, PHD (eps007@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, San Diego City Coll

Mary B Swarthout, PHD (mbs001@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Ohio State University; MA, Miami University; BA, Berea College

Kenneth M Sweet, MBA (sweet@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Texas State Univ-San Marcos; BBA, Texas State Univ-San Marcos

Edward W. Swim, PHD (ews007@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Colorado School of Mines; BS, Angelo State University

T

Yingying Tang, PHD (yxt045@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Auburn University; MS, North Carolina State Univ

Kandi A Tayebi, PHD (eng_kat@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Denver; MA, Univ of Northern Colorado; BA, Univ of Northern Colorado

Kayoko Dan Temple, DMA (kayokodan@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Arizona State University; MM, Arizona State University; BM, Univ of Texas At Austin

Monte L. Thies, PHD (bio_mlt@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Oklahoma State University; MS, Univ of Central Oklahoma; BS, Univ of Central Oklahoma

Christopher Lee Thompson, JD (clt058@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, St Mary's University; BA, Stephen F Austin University

David E Thompson, PHD (det002@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Wisconsin-Madison; BA, Carleton College

Molly Michelle Thompson, MS (mmt001@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Technical Services*, MS, Univ of North Texas; BS, Texas State Univ-San Marcos

Christopher Michael Toula, PHD (cmt077@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Georgia State University; MA, Penn State Un-Univ Park; BA, Buckinghamshire New University

Tarek Mohsen Trad, PHD (tmt033@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oklahoma State University; BS, Beirut Arab Univ

Manuel Triano-Lopez, PHD (mxt017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Universidad de Sevilla

Timothy O Trujillo, PHD (txt031@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Denver; MS, New Mexico Inst/Mining/Tech; BS, New Mexico Inst/Mining/Tech

Markland Howard Tuttle, PHD (mht001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Tennessee-Knoxville; MBA, Sam Houston State University; BBA, Sam Houston State University

U

Stacy Gwenn Ulbig, PHD (sgu001@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Rice University; MA, Rice University; BA, Univ of St Thomas

Francisco Usero Gonzalez, PHD (fug002@shsu.edu), *Assistant Professor of School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Univ of Houston-Main

Baburhan Uzum, PHD (uzum@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Michigan State University; MA, Middle East Technical Univ; BA, Middle East Technical Univ

V

Zachary Alfonso Valdes, MSLS (zav001@shsu.edu), *Professor, Newton Gresham Library*, *Department of Library Technical Services*, MSLS, Univ of North Texas; BA, Sam Houston State University

Rosti Frank Vana, PHD (rosti.vana@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Arizona State University; MA, Arizona State University; BA, Univ of Calif-Riverside; BA, Univ of Calif-Riverside

Jorge G Varela, PHD (jgv002@shsu.edu), *Professor of Psychology and Chair, Psychology and Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BA, Florida Int'L Univ

Kristina K Vargo, PHD (kkv003@shsu.edu), *Professor of Education and Chair, School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Southern Illinois U-Carbondale; MS, Southern Illinois U-Carbondale; BS, Univ of Wisconsin-Eau Claire

Cihan Varol, PHD (cxv007@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Arkansas-Little Rock; MS, West Virginia University; BSC, Firat University

Michael Scott Vaughn, PHD (msv002@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, University of Central Missouri; BS, University of Central Missouri

Edna Viviana Velasquez, PHD (evv003@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main

Adrian Villalta-Cerdas, PHD (axv067@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Costa Rica

W

Tamara A. Waggener, PHD (pol_taw@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; BA, Cal Poly St-Pomona

Matthew Charles Wagner, PHD (mcw002@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Sam Houston State University; BS, Sam Houston State University

Joel W Walker, PHD (jwalker@shsu.edu), *Professor and Chair of Physics*, *Department of Physics & Astronomy*, PHD, Texas A&M University; PHD, Texas A&M University; BS, Harding University; BS, Harding University

WenJiun Wang, PHD (wjwang@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, University of Pittsburgh; MA, National Taipei University; BA, National Taipei University; BBA, National Taipei University

Xiaobo Wang, PHD (xiaobo.belle.wang@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Georgia State University; BA, Northwest Normal University

Janis A Warner, PHD (jwarner@shsu.edu), *Associate Professor of Management Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Florida-Atlantic U; MBA, Univ of Denver; BA, Saint Mary's

Walton A Watkins, MFA (watkins@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Univ of Tennessee-Knoxville; MA, Northwestern St Un of Louisana; BA, Northwestern St Un of Louisana

Holly Ann Kizer Weimar, EDD (hweimar@shsu.edu), *Professor and Chair of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Univ of Houston-Main; EDD, Univ of Houston-Main; MLS, Sam Houston State University; MLS, Sam Houston State University; BSED, Stephen F Austin University; BSED, Stephen F Austin University

Ellen Lorraine Weld, PHD (elw028@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Purdue University; BS, Ball State University

William M Wells, PHD (wmw005@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Indiana University-Bloomington; BA, Ohio University

Lu-Chung Weng, PHD (dennis.weng@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Dallas; MA, Univ of Texas At Dallas; MA, Tamkang College; BBA, Tamkang College

Rebecca Ann Wentworth, PHD (raw034@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Colorado State University; MED, Oakland University; BSED, Central Michigan Univ

Courtney Ann West, PHD (west@shsu.edu), *Asst Dean of Osteopathic Medicine for Educational Development, Adjunct Faculty*, *Department of Primary Care & Clinical Medi*, PHD, Texas A&M University; MED, Sam Houston State University; BS, Sam Houston State University

Stephen Walter White, PHD (sww012@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Mississippi; MA, Univ of Mississippi; BA, Univ of Mississippi

Grant Joseph Wiedenfeld, PHD (grant.wiedenfeld@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; MFA, Univ of Wisconsin-Milwaukee; BA, Univ of Colorado; BFA, Univ of Colorado

Darren Lee Williams, PHD (williams@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oregon State University; BS, Univ of Texas At Austin

Justin K. Williams, PHD (bio_jkw@shsu.edu), *Professor of Biology and Assistant Dean, Honors College*, *Department of Biological Sciences*, PHD, Univ of Texas At Austin; BA, Univ of Texas At Austin

Mary Lola Williams, EDD (mlw049@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas A&M-Corpus Christi; MA, Texas A&M-Corpus Christi; BA, Coe College; BA, Coe College; BA, Coe College

Kamphol Wipawayangkool, PHD (kxw012@shsu.edu), *Professor of Management Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Texas-Arlington; MS, Univ of Houston-Clear Lake; BS, Prince of Songkla University

Lawrence Arthur Wolfskill, PHD (wolfskill@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MBA, Texas A&M University; BS, Texas A&M University

Mary Elizabeth Wood, PHD (mew095@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Kennesaw State University

Dennis C Wooten, PHD (dcw032@shsu.edu), *Assistant Professor of Pathology*, *Department of Clinical Anatomy*, PHD, Purdue University; MD, Univ of Texas HSC-Houston; BS, Clark Atlanta University

Jeffrey R Wozniak, PHD (jrw034@shsu.edu), *Associate Professor of Biology*, *Department of Biological Sciences*, PHD, Florida Int'L Univ; BS, Allegheny College

Jiaju Wu, PHD (jxw089@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, University of Iowa; EDSP, University of Iowa; MA, East Tennessee State Univ; BS, East Tennessee State Univ

X

Yaping Xu, PHD (yxx013@shsu.edu), *Assistant Professor of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, LSU & A&M College; PHD, LSU & A&M College; MS, University of Chinese Academy of Sciences; BE, Guizhou University (China)

Y

Euijin Yang, PHD (exy012@shsu.edu), *Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin; BS, Illinois Inst Tech; BE, Chungnam National University

Liu Yang, PHD (willowyang@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Missouri-St Louis; MBA, Queen Mary Univ of London; BENGR, Xi'an Jiaotong University

Mary Rebecca Yantis, MLIS (mry008@shsu.edu), *Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MLIS, LSU & A&M College; MA, Univ of Louisiana-Lafayette; BA, Belhaven University; BFA, Belhaven University

Shengjie Yao, MA (sxy027@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MA, Syracuse University; MS, Syracuse University; BA, Fu Jen Catholic Univ

Faruk Yildiz, DIT (fxy001@shsu.edu), *Professor and Chair of Engineering Technology*, *Department of Engineering Technology*, DIT, Univ of Northern Iowa; MS, Cuny City Coll; BS, MKH Dulati Taraz State Univ

Chase Jonathan Young, PHD (cxy010@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MS, Walden University; BA, Metropolitan St Univ of Denver

Chi Chung Yu, PHD (jornyu@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, Carleton University; MS, Central Police University; BS, Central Police University

Z

Samar M Zahrawi, PHD (sxz015@shsu.edu), *Associate Professor of Arabic*, *Department of World Languages & Cultures*, PHD, University of Leeds; BA, Al-Ba'ath University

Christopher M Zall, PHD (cxz027@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Minnesota-Twin Cities; MS, Univ of Minnesota-Twin Cities; BA, Carleton College

Ryan K Zapalac, PHD (rkz001@shsu.edu), *Professor of Kinesiology and Interim Dean, COHS*, *Department of Kinesiology*, PHD, Univ of Houston-Main; MED, Univ of Houston-Main; BS, Univ of Houston-Main

Pamela J Zelbst, PHD (mgt_pjz@shsu.edu), *Distinguished Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Texas-Arlington; MBA, Sam Houston State University; BBA, Sam Houston State University

Shuangyue Zhang, PHD (sxz002@shsu.edu), *Professor of Communication Studies*, *Department of Communication Studies*, PHD, Ohio State University; MA, Kent State University; MA, Shandong University; BA, Shandong Normal University

Yan Zhang, PHD (icc_yxz@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MS, Michigan State University; MS, Michigan State University; BS, Wuhan University

Jihong Zhao, PHD (jxz006@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Shanghai Inst of Higher Edu

Yuan Zhao, PHD (yxz028@shsu.edu), *Associate Professor of Microbiology and Immunology; Acting Chair, Molecular/Cell*, *Department of Molecular & Cellular Biology*, PHD, Univ of Louisville; MS, Univ of Louisville; BS, East China Normal Un

Bing Zhou, PHD (bxz003@shsu.edu), *Professor and Chair of Computer Science*, *Department of Computer Science*, PHD, University of Regina; MS, University of Regina; BS, Shandong Univ of Technology

Renjie Zhou, PHD (rxz013@shsu.edu), *Assistant Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Texas A&M University; BS, China University of Petroleum

Linda Reichwein Zientek, PHD (lrz002@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Sam Houston State University

Interim Faculty

Interim Faculty have specified periods of appointment and are not considered to be working toward tenure at Sam Houston State University.

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- Z (p. 1352)

A

Sheri Christi Aajul, MS (sca022@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Univ of Florida; BS, Univ of Florida

Mahasen Belal Saad Abdelhafez, MA (mba028@shsu.edu), *Assistant Professor of Practice of Engineering Technology*, *Department of Engineering Technology*, MA, Southern Illinois U-Carbondale; BARCH, Cairo University

Carlton G Abernathy, MA (stdcga11@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; MA, Texas State Univ-San Marcos; BA, Sam Houston State University

Olivia Ann Abernethy-Ramsey, MA (oaa026@shsu.edu), *Lecturer of English*, *Department of English*, MA, Texas Tech University; BA, Texas A&M University

George Matthew Ackerman, PHD (gma017@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Capella University; JD, Nova Southeastern University; MS, Nova Southeastern University; MBA, Nova Southeastern University; BA, Florida-Atlantic U

Emmanuel K Addai, PHD (eka012@shsu.edu), *Lecturer-Pool of Engineering Technology*, *Department of Engineering Technology*, PHD, Otto Von Guericke University; MBA, Univ of Southern Indiana; MS, Otto Von Guericke University; BS, University of Cape Coast

Upeksha Ayanthi Adikari, MS (uaa004@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Texas Tech University; BS, University of Peradeniya

Lilibeth Claudio Al-Kofahy, PHD (lxa019@shsu.edu), *Clinical Professor of Nursing*, *School of Nursing*, PHD, University of Queensland (The); MN, Victoria University; MAN, Far Eastern University; BSN, MV Gallego Foundation Colleges

Heather Ann Alaniz, PHD (haa034@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Texas Southern University; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Lori Ann Albe, MS (laa043@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; BS, Sam Houston State University

Julie Nicholson Albert, MA (jna003@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MA, Sam Houston State University; BS, Appalachian State University

Adannaa Oparanozie Alexander, MPH (aoalexander@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, MPH, Emory University; AB, Washington University

Paul Russell Allen, MBA (gba_pra@shsu.edu), *Lecturer of Management, Marketing and Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Sam Houston State University; BBA, Sam Houston State University

Bright Tawiah Amofa, MS (bta012@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, University of Cape Coast

Nathan Douglas Anderson, MFA (nda016@shsu.edu), *Assistant Professor of Practice in Arts*, *Department of Art*, MFA, Academy of Art University; BFA, Academy of Art University

Michelle Angelo, MSN (mxa147@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas HSC-Houston; BSN, McNeese State University; BSBA, McNeese State University

William Lee Angrove, EDD (wla002@shsu.edu), *Assoc VP For Distance Learning, Adjunct Faculty*, *Department of Mass Communication*, EDD, University of New England; MPA, American Public University; BS, Western Michigan University

Mehmet Arican, PHD (mxa146@shsu.edu), *Lecturer of Criminal Justice & Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Leicester; MA, Univ of Leicester; BA, Univ of Istanbul

Dusanka Armstrong, MA (dxa015@shsu.edu), *Adjunct*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

Tamara Sue Arrington, MA (txa041@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, The University of Memphis; BA, Univ of Florida

Brianna Lee Arriola, MA (bla017@shsu.edu), *Lecturer of Practice in Agricultural Sciences*, *Department of Agricultural Sciences*, MA, Texas A&M University; BS, Sam Houston State University

Michael Arvanitopoulos, PHD (mxa258@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; AM, Univ of South Florida; BA, Suny At Stoneybrook

Sabrin Ahmad Assi, PHD (saa084@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Houston-Main

Esther Clara Hudson Augustine, AM (ech007@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, AM, Catholic University-America; AB, Univ of St Thomas; BS, Univ of St Thomas

Scott Patrick Augustine, DMA (spa012@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Illinois-Urbana; MM, Univ of Illinois-Urbana; BM, Stephen F Austin University

B

Misti Michelle Babino, EDD (mme003@shsu.edu), *Adjunct Faculty*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BS, Sam Houston State University

Zachary Charles Bachman, PHD (zcb006@shsu.edu), *Senior Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Calif-Riverside; MA, Texas A&M University; BA, Univ of Calif-San Diego

Joshua Robert Backus, MFA (jrb144@shsu.edu), *Visiting Assistant Professor of Art*, *Department of Art*, MFA, Univ of Chicago; BFA, School of Art Inst of Chicago

J Robert Baker, PHD (jxb310@shsu.edu), *Lecturer of English*, *Department of English*, PHD, Univ of Notre Dame; MA, Univ of Notre Dame; BA, Univ of Notre Dame

Jerrine Green Baker, MBA (jgb021@shsu.edu), *Lecturer of Management and Marketing*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Virginia Commonwealth Univ; BS, Averett University

Geraldo De Guzman Banaag, MA (gdb018@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MA, Sam Houston State University; BS, Philippine Normal Cl

Diana Villarreal Barfield, EDD (dxb072@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, EDD, Abilene Christian University; MA, Abilene Christian University; BS, Mountain State University

Carolyn Kate Baxter, MFA (ckb039@shsu.edu), *Lecturer-Pool Faculty of Art*, *Department of Art*, MFA, Laguna College of Art and Design; BS, Texas A&M University

Lindsey Brooke Beatty, DNP (lbp001@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Texas A&M-Corpus Christi; MSN, Loyola Univ-New Orleans; BS, Sam Houston State University; BS, Sam Houston State University

Jennifer Martina Bell, MBA (jmb258@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MBA, Colorado Technical University; BS, Texas Tech University

Richard S Bello, PHD (scm_rsb@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, LSU & A&M College; MA, LSU & A&M College; BA, LSU & A&M College

Tara Anne Benevides, MS (tao008@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University

Jamie Heintz Benson, EDD (jlh015@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BBA, Sam Houston State University

Justin Time Bickford, BS (jtb006@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, BS, Sam Houston State University; DPT, Univ St. Augustine Health Sci

Amy Lynn Bilski-Arredondo, MED (alb160@shsu.edu), *Lecturer of English*, *Department of English*, MED, Texas Tech University; BS, Texas Tech University; BS, Texas Tech University; BS, Texas Tech University

Janet Horton Bius, PHD (chm_jhb@shsu.edu), *Lecturer of Chemistry*, *Department of Chemistry*, PHD, Univ of Kansas; MS, Sam Houston State University; BS, Sam Houston State University

Katelyn Jane Blankenburg, MMT (kblankenburg@shsu.edu), *Clinical Assistant Professor of Music*, *School of Music*, MMT, Loyola Univ-New Orleans; BM, Sam Houston State University

Sean James Blinn, MA (sjb094@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MA, Penn State University; MS, Univ of Scranton; BA, The King's College; BA, The King's College; DCJ, California Un of Pa

Megan M Bodish, MED (mmp021@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Susan C Bohan, MED (scb054@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, MED, Sam Houston State University; BAT, Sam Houston State University

Arlinda Suzanna Boland, MA (asb101@shsu.edu), *Lecturer of American Sign Language*, *Department of World Languages & Cultures*, MA, Gallaudet University; MS, Gallaudet University; MA, Univ of Bristol; BA, Gallaudet University

Krystal Bolden, MFA (krb112@shsu.edu), *Clinical Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, National University; BA, Bowling Green State University; BA, Bowling Green State University

Rasika Nitin Borse, MFA (rnb020@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BA, Univ of Calgary

Craig S Boudreaux, DO (c.boudreaux@shsu.edu), *Assistant Professor of Family Medicine; Assistant Dean, COM*, *Department of Primary Care & Clinical Medi*, DO, Univ of North TX Hlth Sci Cntr; BBA, Univ of Texas At Austin

Timothy Rodger Bowman, MS (trb061@shsu.edu), *Lecturer-Pool Faculty of Security Studies*, *Department of Security Studies*, MS, Sam Houston State University

Ryan Gunnar Boyle, MS (rgb025@shsu.edu), *Lecturer of Business Administration and Entrepreneurship*, *Department of Business Admin & Entrep*, MS, East Texas A&M; MS, Texas A&M University; BBA, Texas A&M University

Carol Barclay Brace, MS (cbb055@shsu.edu), *Lecturer of Management*, *Department of Mgmt, Mktg, & Info Systems*, MS, Univ of Houston-Main; BS, Univ of Akron

Steven Brack, MSM (sxb138@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MSM, U-Houston Downtown; BS, Nova Southeastern University

Deletea Mashawnda Bradley, MSN (dmb146@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Univ of Texas-Arlington

Bahia Braktia, EDD (bxb039@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, EDD, Sam Houston State University

Deneisha Alice Branch, MBA (deneishabranch@shsu.edu), *Lecturer of Human Sciences*, *Department of Human Sciences*, MBA, American Intercontinental Univ; BFA, American Intercontinental Univ

Mary Magdalene Breaux, PHD (mmp019@shsu.edu), *Professor of Practice in Victim Studies*, *Department of Victim Studies*, PHD, Prairie View A&M University; MA, Webster University; BS, Sam Houston State University

Shelby Ann Brock, MS (sab014@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, Sam Houston State University; BA, Sam Houston State University

Thomas John Brommage, PHD (tjb039@shsu.edu), *Senior Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Manhattanville College

Casey Camille Graham Brown, PHD (ccb068@shsu.edu), *Adjunct Faculty, Associate Dean COE*, *Department of Educational Leadership*, PHD, Univ of Oklahoma-Norman; MED, Univ of Oklahoma-Norman; BS, Southeastern Oklahoma St Univ

Juanita M Brown, DO (jmb228@shsu.edu), *Associate Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Nova Southeastern University; BS, Florida Southern College

Michael F. Brown, PHD (mfb021@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas HSC-Houston; MSN, West Texas A&M State Univ; BSN, West Texas A&M State Univ

Kelsie Dawn Bryand, MS (kds001@shsu.edu), *Adjunct Faculty*, *Department of Forensic Science*, MS, Sam Houston State University; BA, Texas A&M University

Zachary Franklin Bryant, DMA (zfb001@shsu.edu), *Lecturer of Theatre*, *Department of Theatre & Musical Theatre*, DMA, Univ of Maryland-College Park; MM, Univ of Colorado; MA, Columbus State University

Silke Bugge, MA (sbugge@shsu.edu), *Lecturer of World Languages and Cultures*, *Department of World Languages & Cultures*, MA, Humboldt University of Berlin; BSED, Humboldt University of Berlin

Mark A Bull, MS (mab028@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Alisha N Bullion, MS (anb035@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Jennifer Ann Bunn, PHD (jab229@shsu.edu), *Professor of Kinesiology and Associate Dean of COHS*, *Department of Kinesiology*, PHD, Baylor University; MS, Univ of Kentucky; BS, Nicholls State University

Laura Keilers Burleson, PHD (hec_lpb@shsu.edu), *Assistant Professor of Interior Design*, *Department of Human Sciences*, PHD, Texas Tech University; MS, Oklahoma State University; BS, Oklahoma State University

John Phillip Burnett, PHD (jpb006@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Stephen F Austin University; SSP, Sam Houston State University; BS, Sam Houston State University

Kirk A Burns, MS (lib_kab@shsu.edu), *Senior Lecturer of Computer Science*, *Department of Computer Science*, MS, Sam Houston State University; BS, Sam Houston State University

David S. Burris, PHD (csc_dsb@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Texas A&M University; MA, Texas State Univ-San Marcos; BS, Texas State Univ-San Marcos; BS, Texas State Univ-San Marcos

Tonya Renae Burton, DMA (trb069@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Rice University; BM, Cleveland Institute of Music

Kari Lee Bush, MA (klb021@shsu.edu), *Lecturer of English*, *Department of English*, MA, LSU & A&M College; MA, Sam Houston State University; BA, Sam Houston State University

Christine Marie Butler, EDD (cmb013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MA, Northwestern St Un of Louisana; BA, Northwestern St Un of Louisana

Shanika Shonte Byars, MS (ssb046@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Jackson State University; BS, Alcorn State University

C

Allyzah Allene De Galicia Cabugao, MA (adc080@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Univ of Houston-Main

Michelle Ellen Camarata, MS (mec068@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, MS, Sam Houston State University; BS, Sam Houston State University

Benjamin Aaron Cantu, MA (bcantu@shsu.edu), *Assoc Dir of Visitors Services, Adjunct*, *Department of Teaching & Learning*, MA, Sam Houston State University; BS, East Texas Baptist University

Cesar Enoc Cantu, BS (cec074@shsu.edu), *Visiting Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, BS, Sam Houston State University

Nancy Stark Carey, MS (nsc014@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MS, Texas Woman's University; BS, Southwestern Adventist Univ.

Gloria F Carter, MED (gfc002@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Transfer College; BS, Transfer College

Robert T Cashion, PHD (his_rtc@shsu.edu), *Professor of History*, *Department of History*, PHD, Texas Christian University; MA, Univ of Texas-Arlington; BA, Austin College

Yvonne Casique, MA (yxc106@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Azusa Pacific University; BA, U-Houston Downtown

Michelle M Castanon, PSYD (mmc039@shsu.edu), *Psychologist-Counseling Ctr; Adjunct Faculty*, *Department of Psychology & Philosophy*, PSYD, Argosy University; MA, Argosy University; MA, St Mary's University; BA, Our Lady of Lake University

Angel Castelan, MFA (axc515@shsu.edu), *Lecturer-Pool Faculty of Arts*, *Department of Art*, MFA, Univ of Houston-Main; BFA, Univ of Houston-Main

Caron Charlton Cates, MA (soc_ccc@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, MA, Sam Houston State University; BS, Sam Houston State University

Alberto Alejandro Ceballos Delgado, BS (aac088@shsu.edu), *Lecturer of Computer Science*, *Department of Computer Science*, BS, Sam Houston State University

Amber Vonona Chambers, MS (avc015@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Texas A&M University; BS, Univ of Idaho

Courtney Dale Chastine, MA (cdc029@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MA, Sam Houston State University; BA, Sam Houston State University

Jacqueline Beth Chetzron, PHD (jbc052@shsu.edu), *Lecturer of Library Public Services*, *Department of Library Sci & Technology*, PHD, Univ of North Texas; MLS, Texas Woman's University; MS, Univ of Texas At Austin; BA, Univ of Texas At Austin

Jennifer L Child, MA (jlc055@shsu.edu), *Senior Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Texas A&M University

Fanny Ruth Chisum, EDD (ruthcubas@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, EDD, University of New England; MS, Palm Beach Atlantic; BA, Palm Beach Atlantic; BA, Palm Beach Atlantic

Mary Katherine Chisum, MED (stdmkc13@shsu.edu), *Instructional Designer, Adjunct Faculty*, *Department of University Wide*, MED, Sam Houston State University; BFA, Sam Houston State University

Shaif Chowdhury, MS, *Assistant Professor of Practice in Practical AI and Intelligent Automation*, MS, Baylor University

Laurie L Christensen, MS (llc022@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MS, Sam Houston State University; BS, Univ of Houston-Main

Lauren Clay, MFA (lxc039@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Wichita State University; BA, McNeese State University

Tara Diyanne Clover, MA (tclover@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University

Alan C Clune, PHD (phl_acc@shsu.edu), *Senior Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, University at Buffalo, Suny; MS, Rensselaer Poly Inst; BS, Worcester Polytechni

Wanda Renee Coleman, MED (wrc011@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BAT, Sam Houston State University

Ouida M Collins, MD (omc007@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, MD, Meharry Medical College; MPH, Univ of Texas HSC-Houston; BS, Xavier University of Louisiana

Marilyn Ruth Comer, MFA (mrc052@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Univ of Texas-Arlington

Jay O Coons, PHD (stdjoc12@shsu.edu), *Assistant Professor of Practice of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Sam Houston State University; BS, Sam Houston State University

Jennifer Sherry Coppock, MA (jsn019@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Univ of Houston-Main

Bryan Michael Corbin, EDD (bmc108@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, EDD, Southwestern College; MA, Western New Mexico University; MPW, Chatham College; BA, California St Un-Fullerton

Sarah Leslie Couch, MS (stdslk23@shsu.edu), *Senior Lecturer of Biological Sciences*, *Department of Biological Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Tonya L Couch, MS (tlc106@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Western Governors University; BSN, Prairie View A&M University

GM Cox, PHD (gmc037@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas-Arlington; MS, Sam Houston State University; BS, Sam Houston State University

John M Crabtree, DMA (jmc001@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, LSU & A&M College; MM, LSU & A&M College; BM, Southeastern Louisiana Univ.

Joshua Curtis Criswell, AM (jcc146@shsu.edu), *Assistant Professor in Practice of Mass Communications*, *Department of Mass Communication*, AM, Depaul University; BS, LSU & A&M College

Jacob Thomas Cross, MD (jtc067@shsu.edu), *Professor of Microbiology*, *Department of Molecular & Cellular Biology*, MD, Tulane University; MPH, Tulane University; BS, Tulane University

Allen Lea Culver, DBA (alc166@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, DBA, Franklin University; MPS, Penn State University; BS, Franklin University; BS, Urbana College

Melissa Dawn Cummins, PHD (mdc071@shsu.edu), *Lecturer of Music*, *School of Music*, PHD, Univ of Kansas; MM, Univ of South Dakota; MMED, Southeast Missouri State Univ; BSED, Nw Missouri St Univ

Peter Andrew Curka, DO (pac027@shsu.edu), *Associate Professor of Osteopathic Manipulative Medicine*, *Department of Osteopath Principles & Pract*, DO, University of New England; BS, Boston College

D

Danielle Kay Dahmann, MA (dkd018@shsu.edu), *Lecturer of English*, *Department of English*, MA, Texas State Univ-San Marcos; BA, Univ of Mary Hardin Baylor

Darrell Lynn Darnell, MBA (dxd091@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MBA, George Washington University; MGA, Univ of Maryland-Univ Coll; BS, Univ of Maryland-Univ Coll

Amy Kathleen Rogers Dean, PHD (amydean13@shsu.edu), *Senior Lecturer of History*, *Department of History*, PHD, Purdue University; MA, Purdue University; BA, Texas Christian University; BA, Texas Christian University; BA, Texas Christian University

Chuck D Deaton, MED (cdd042@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BFA, Univ of Houston-Main

Magdalena A Denham, EDD (mxm002@shsu.edu), *Professor of Practice of Security Studies*, *Department of Security Studies*, EDD, Sam Houston State University; MA, San Diego St Univ; BA, Univ of San Diego

Mark Vincent Denham, MS (mvd001@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Univ of Southern Mississippi

Kathryn Poole Deshotels, MSN (kpd008@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Tx Health Science Cntr; BSN, Univ of S Carolina-Columbia; BS, McNeese State University

Jill Sayes Dewey, PHD (jsd043@shsu.edu), *Assistant Professor of Practice in Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; BS, LSU & A&M College

Maria Cristina Diaz, MED (mcd010@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Gregory L. Dickens, MBA (dickens@shsu.edu), *Senior Lecturer of Management*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Sam Houston State University; BBA, Sam Houston State University

Hannah Elizabeth Dietrich, MA (hed007@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Dallas Baptist University

David A. Dippel, EDD (dad052@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, EDD, Argosy University; MS, Univ of Houston-Main; BS, Stephen F Austin University

Clayton Reed Dodson, PHD (crd073@shsu.edu), *Assistant Professor of Practice for Education*, *Department of Teaching & Learning*, PHD, University of North Dakota; MED, University of North Dakota; BSED, Mayville State University

Zachary A Doleshal, PHD (zad007@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of New Mexico

Angelique Lynn Domonoske, MS (alc092@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MS, Western Governors University; BS, Western Governors University

Barry W Doss, BA (bwd006@shsu.edu), *Dance Costume Design Special't, Adjunct Faculty*, *Department of Dance*, BA, Texas Christian University

Cailyn Nicole Dougherty, MED (cnd011@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MED, Sam Houston State University; BA, Sam Houston State University

Laura B Dougherty, MS (ldougherty@shsu.edu), *Senior Lecturer of Kinesiology*, *Department of Kinesiology*, MS, McNeese State University; BS, McNeese State University

Keith Michael Douglass, MN (kmd090@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MN, Sacred Heart University; MHA, Saint Joseph's College; BSN, Utica College

Stacy Knudson Downs, MED (stdskd21@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Texas State Univ-San Marcos; BA, Angelo State University

Deborah Lovett Duncan, MSN (dld034@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, University of Phoenix; MAED, Univ of Alabama-Birmingham; BSN, Univ of Alabama-Birmingham

Susan Cromwell Duncan, PHD (scd042@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Abilene Christian University; BS, Sam Houston State University

Rebecca Duncan-Ramirez, PHD (rlw003@shsu.edu), *Clinical Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Ferris State University; MED, Sam Houston State University; BBA, Sul Ross State University

Jeremy Tyler Dunman, JD (jtd029@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, South Texas College of Law; MS, Sam Houston State University; BS, Texas A&M University

Jaime Betancourt Duran, PHD (jbd023@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Univ of Texas-Pan American; BA, Univ of Texas-Pan American

William W Durham, JD (gba_wwd@shsu.edu), *Lecturer of Business Administration*, *Department of Business Admin & Entrep*, JD, St Mary's University; BBA, Univ of Texas At Austin

E

Eric Stephen Eckel, MSM (ese005@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MSM, U-Houston Downtown; BS, U-Houston Downtown

Nathan A Eckstrand, PHD (nae013@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, PHD, Duquesne University; MA, Boston College; BA, Earlham College

Jennifer Ifeyiwa Edeogu, MSN (jxe035@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MSN, Univ. of Texas-Med-Galveston; BS, Lamar University

Madison Elyse Edgar Mathis, MED (madyedgarmathis@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Univ of Texas At Austin

Alexandra Carlotta Ekstrom, MA (ace049@shsu.edu), *Lecturer of English*, *Department of English*, MA, Northwestern St Un of Louisana; BA, LSU & A&M College

Cheryl Joy Eschenfelder, MA (jrn_cje@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MA, Sam Houston State University; BA, Sam Houston State University

F

Ashley Kay Fansher, PHD (afansher@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University

Michael V Ferguson, MS (mvf002@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, Stephen F Austin University

Brenda A Fernandez, MED (baf045@shsu.edu), *Associate Dir ASC/FYE; Adjunct Faculty*, *Department of University Wide*, MED, Texas Tech University; BS, Univ of Houston-Downtown

Ivys R Fernandez Pastrana, BA (irf003@shsu.edu), *Lecturer-Pool Faculty of Public Health*, *Department of Public Health*, BA, Univ of Puerto Rico

Kalley Kay Fikes, MS (kkf007@shsu.edu), *Adjunct*, *Department of Agricultural Sciences*, MS, Texas A&M University; BS, Texas A&M University

Russell Brian Fincher, MM (rbf002@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Univ of North Texas; BM, Sam Houston State University

Natalie Reid Foley, MS (nrf026@shsu.edu), *Dir of Development; Adjunct Faculty*, *Department of Kinesiology*, MS, West Virginia University; BS, West Virginia University

Richard Kirby Ford, EDD (rkf006@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, EDD, Texas A&M University; MS, Texas A&M-Kingsville; BS, Texas A&M University

Fred Allen Forgey, PHD (forgey@shsu.edu), *Associate Dean COBA*, *Department of Business Admin & Entrep*, PHD, Texas Tech University; MBA, Univ of North Texas; BBA, Univ of Texas-Arlington

Michael Douglas Foster, BFA (mdf022@shsu.edu), *Video Producer, Adjunct Faculty*, *Department of Mass Communication*, BFA, Sam Houston State University

Lauren Cotner Francis, MA (lcf019@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Southern Methodist University; BA, Univ of The South

Kristie L Franks, MS (stdkxr14@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Jennifer Franz-Melady, MA (jxf110@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MA, University of Tulsa; BM, Univ of Rochester

Fredric Freeman, MS (fxf015@shsu.edu), *Lecturer of Art*, *Department of Art*, MS, Thomas Jefferson Univ; BS, Thomas Jefferson Univ

Leif M French, PHD (lmf027@shsu.edu), *Adjunct Faculty, Sr. Associate Dean, CHSS*, *Department of World Languages & Cultures*, PHD, Universite Laval; MA, Universite Laval; BA, California St Un-Sacramento

Kelley Anne Frierson, MA (kfrierson@shsu.edu), *Lecturer of English*, *Department of English*, MA, Univ of Houston-Clear Lake; MA, Univ of Houston-Clear Lake; BA, Texas A&M-Corpus Christi

Sarah Jill Fritsch, MS (sarah.fritsch@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Daphne K Fulton, DPH (dsf005@shsu.edu), *Clinical Associate Professor of Public Health*, *Department of Public Health*, DPH, Texas A&M University; MPH, Texas A&M University; BS, Sam Houston State University

G

Anne R Gaillard, PHD (bio_arg@shsu.edu), *Adjunct Faculty; Vice Provost*, *Department of Biological Sciences*, PHD, Emory University; BS, Purdue University

Edward F Gallagher, JD (exg206@shsu.edu), *Assistant Professor of Practice for Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, Villanova University; MA, Univ of St Thomas; BA, Indiana University; BA, Indiana University

Analisa Garcia, MA (axg396@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Azusa Pacific University; BA, Univ of Texas-Brownsville

Ashley Nicole Garcia, MSN (ann026@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas At Tyler; BSN, Sam Houston State University

Megan Rebecca Garcia, BS (mrf046@shsu.edu), *Assistant Professor of Practice of Interior Design*, *Department of Human Sciences*, BS, Texas State Univ-San Marcos

Erika Whitney Garrett, MFA (ewg009@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Houston-Main; BFA, Univ of Texas At Tyler

Nicole M. Garrison, MBA (gba_nmg@shsu.edu), *Associate Professor of Practice in Management, Marketing and Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Sam Houston State University; BBA, Texas A&M University

Juan Carlos Garza, MM (jcg124@shsu.edu), *Lecturer-Pool Faculty of Music*, *School of Music*, MM, Univ of Houston-Main; BM, Stephen F Austin University

Megan Renee Garzaglass, PHD (mrg044@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Houston-Clear Lake; BS, California St Un-Sacramento

Katherine Quiggins Gaskamp, MA (kwq001@shsu.edu), *Lecturer of History*, *Department of History*, MA, Sam Houston State University; BA, Sam Houston State University

Martin Daniel Gaston, MED (mdg078@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MED, Houston Christian University; BS, Texas Tech University

Divina Perez Gato-Hogno, DNP (dpg019@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Univ of Texas-Arlington; MSN, Univ. of Texas-Med-Galveston; BSN, Un of Tx-HSC At Houston

Dain A Geist, MFA (dag067@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, New School/Soc Rsrch; BFA, Adelphi University

Amber Elizabeth George, PHD (aeg079@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Suny College At Cortland

Elaine Barbara George, MS (ebg020@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, MS, University of Cali, San Fran; BA, Univ of Calif-Santa Cruz; BA, Univ of Calif-Santa Cruz

Jurg Gerber, PHD (icc_jxg@shsu.edu), *Professor Emeritus of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Eastern Washington University

Veronica Sierra Danielle Gibson, MFA (vsg014@shsu.edu), *Visiting Assistant Professor of Art*, *Department of Art*, MFA, Pratt Institute; BS, Western Michigan University

Heidi Elizabeth Gilroy, PHD (heg023@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, PHD, Texas Woman's University; MSN, Illinois Benedtn Col; BS, Texas Woman's University

Naomi Kay Gjevre, DM (nkg003@shsu.edu), *Lecturer of Music*, *School of Music*, DM, Florida State University; MM, Florida State University; BM, Univ of Minnesota-Twin Cities

Sefik T Gokaslan, MD (stg016@shsu.edu), *Professor of Practice in Pathology*, *Department of Clinical Anatomy*, MD, Univ of Istanbul

Danielle Marie Goodspeed, PHD (dmg048@shsu.edu), *Visiting Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Rice University; MS, Rice University; BS, Roger Williams University; BS, Roger Williams University

Jennifer Marie Graff, JD (jmg208@shsu.edu), *Lecturer of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; LLM, Southern Methodist University; BBA, Univ of Texas At Austin

Kendall Danelle Gragert, MA (kdk019@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MA, Sam Houston State University; BA, Sam Houston State University

Kim H Graham, MED (kxg083@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Texas State Univ-San Marcos; BS, Texas State Univ-San Marcos

Donna June Grannan, MA (djg059@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MA, Naval Postgrad Schl; MBA, Wesleyan College; BBA, Texas Christian University

Julian Grant, BFA (jxg390@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, BFA, York University

Tayler Lorraine Gray, MA (tlg016@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, MA, Sam Houston State University; BS, Sam Houston State University

Stephen Michael Green, MA (smg032@shsu.edu), *Lecturer-Pool of Mass Communication*, *Department of Mass Communication*, MA, Kent State University; BA, Sam Houston State University

Robert J. Greenberg, MS (rjg046@shsu.edu), *Assistant Professor of Practice of Computer Science*, *Department of Computer Science*, MS, Illinois State University; BS, Illinois State University

Ronnie Bennett Greene, BFA (rbg014@shsu.edu), *Lecturer-Pool Faculty of Mass Communication*, *Department of Mass Communication*, BFA, Sam Houston State University

Christopher D Greenleaf, PHD (cdg053@shsu.edu), *Clinical Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Rocky Mountain Univ Health Pro; MS, Middle Tennessee State Univ; BS, Charleston Southern University

Janet Lynn Gregory, DO (jlg160@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of N. Texas Hlth Sci Cnt; BA, Univ of Louisiana-Monroe

Amber Dawn Griffin, PHD (adgriffin@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Arizona State University; BA, Univ of Wisconsin-La Crosse; BA, Univ of Wisconsin-La Crosse

Shaun T Griffiths, MFA (stg008@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Alfred University; MA, University of Sunderland; BFA, San Jose State University

Marcy Gibson Grubbs, DNP (mgb071@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, DNP, Jacksonville University; MSN, Univ of Alabama-Tuscaloosa; BSN, Jacksonville University

Dana Rice Guidroz, DMA (drg059@shsu.edu), *Visiting Assistant Professor of Music*, *School of Music*, DMA, Univ of Southern Mississippi; MM, Florida State University; BM, Baylor University

Pooja Gupta, EDD (pxg055@shsu.edu), *Clinical Assistant Professor of Special Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MS, Univ of Houston-Clear Lake; BED, Women's University; BC, University of Bombay

Stuart West Gurley, PHD (swg003@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of New Mexico; BA, Austin College; BA, Austin College

Vianey Gutierrez, MA (vxg017@shsu.edu), *Senior Lecturer of Spanish*, *Department of World Languages & Cultures*, MA, Sam Houston State University; BBA, Institute of Tech of Chihuahua

H

Farzana Hafeez, PHD (fxh021@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Oklahoma State University; MS, Univ of Central Oklahoma; MSC, Univ of Karachi; BS, Univ of Karachi

Bruce D. Hall, MLIS (lib_bdh@shsu.edu), *Clinical Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MLIS, Univ of Wisconsin-Milwaukee; BA, Old Dominion University

Christina Marie Hammons, EDD (cmh085@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Univ of Houston-Main; BS, Univ of Houston-Main

Patricia Ann Harbin, MS (pab025@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; BS, Sam Houston State University

Tim T Harkrider, EDD (tth013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Univ of Texas-Arlington; BS, Stephen F Austin University

Robert G Harmon, MSN (rgh012@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, Univ of Texas HSC-Houston; BSN, Austin Peay State University

Billie Bob Harrell, MSN (stdbbh11@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Un of Tx-HSC At Houston; BSN, Un of Tx-HSC At Houston

Lisa Ann Harris, BFA (lah087@shsu.edu), *Lecturer of Art*, *Department of Art*, BFA, Univ of Houston-Main

Susan Renee Harte, EDD (susanharte@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, East Texas A&M; MED, Lamar University; MA, Univ of Nebraska-Omaha; BSED, Peru State College

Deborah Rathke Harvey, MM (drh074@shsu.edu), *Assistant Professor of Practice of Music*, *School of Music*, MM, Rice University; BM, Northwestern University

Madison Brooke Hayman, MED (mbh020@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MED, Univ of Texas-Pan American; BS, Sam Houston State University

Marsha Pleshette Heard, EDD (mph030@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Univ of Texas-Arlington; MS, Univ of Houston-Clear Lake; BS, Houston Christian University; BS, Houston Christian University

Amy Kathleen Heath, PHD (stdakt13@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; BS, Sam Houston State University

Natalie D Hegwood, PHD (eco_ndh@shsu.edu), *Adjunct Faculty and Assistant Dean, College of Business Administration*, *Department of Economics & Intl Business*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BBA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Janene Withers Hemmen, EDD (stdjwh22@shsu.edu), *Clinical Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Iowa State University

Michael Henderson, MFA (mhenderson@shsu.edu), *Professor of Art and Associate Dean, CAM; Adjunct Faculty*, *Department of Art*, MFA, Univ of North Texas; BFA, Univ of North Texas

Nicole Renee Hendricks, PHD (nrh031@shsu.edu), *Visiting Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Southern Mississippi; MA, Ball State University; BA, Quincy College

Kenneth E Hendrickson, PHD (his_keh@shsu.edu), *Dean of Graduate Studies, Professor of History*, *Department of History*, PHD, University of Iowa; MA, Texas A&M University; BA, Texas A&M University

Kevin Samuel Shaw Henning, PHD (henning@shsu.edu), *Clinical Associate Professor of Business Analysis*, *Department of Economics & Intl Business*, PHD, Texas Tech University; MS, Texas Tech University; BBA, University of The Southwest

Ernesto Molinar Hernandez, PHD (emh060@shsu.edu), *Lecturer of Food Science & Nutrition*, *Department of Human Sciences*, PHD, Univ of Massachusetts-Amherst; MS, Oregon State University; BS, University of Guanajuato

Kristen Karnes Hester, MA (kck023@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Houston Christian University; BA, Houston Christian University

Lonna Ann Marie Holland, MS (lah045@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Michael Gene Hollander, MBA (mgh035@shsu.edu), *Assistant Professor of Practice in Finance*, *Department of Finance & Banking*, MBA, Univ of Texas At Austin; BBA, St Edwards University

Maxie Hollingsworth-Latimer, EDD (mxh209@shsu.edu), *Lecturer-Pool Faculty of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MSW, Howard University; BA, Univ of Michigan-Ann Arbor; BA, Univ of Michigan-Ann Arbor; BA, Univ of Michigan-Ann Arbor

Maria Alexander Holmes, EDD (mah001@shsu.edu), *Lecturer of First-Year Experience*, *Department of University Wide*, EDD, Sam Houston State University; MA, Sam Houston State University; BA, The University of Memphis

Susan Lee Honeywell, MA, *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Univ of Texas At Tyler; BS, Univ of Texas At Tyler

Susan Jeanette Hoppe, PHD (sjh008@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MA, Sam Houston State University; BSCJ, Sam Houston State University

Valerie Christine Hopper, DO (vxh026@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of N. Texas Hlth Sci Cnt; BS, University of Tulsa

Daniel Taylor Horenstein, MS (dth041@shsu.edu), *Lecturer of Physics and Astronomy*, *Department of Physics & Astronomy*, MS, Georgia State University; BA, Columbia University

Dena Ruth Horne, MA (drh022@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BS, Sam Houston State University

Glenda Read Hsiao, MD (grh031@shsu.edu), *Assistant Professor of Primary Care*, *Department of Primary Care & Clinical Medi*, MD, Un of Tx-HSC At Houston; BS, Baylor University

Victor Kaifu Hsiao, MD (vkh003@shsu.edu), *Assistant Professor of Primary Care*, *Department of Primary Care & Clinical Medi*, MD, Un of Tx-HSC At Houston; BS, Baylor University

Yewen Huang, PHD (yhuang@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; BS, Hebei Normal University; BS, Hebei Normal University

Cheri Hudgeons, MS (cxh022@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Janice Marie Hudson, MED (jmh084@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Lamar University

Joan E.N. Hudson, PHD (bio_jxn@shsu.edu), *Associate Professor of Biology*, *Department of Biological Sciences*, PHD, Iowa State University; MS, Texas A&M University; BS, Texas A&M University

Billy S Humphrey, MS (icc_bsh@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Monique Chanel Huntley, PHD (mch067@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, PHD, Texas Woman's University; MSN, Prairie View A&M University; BSN, Prairie View A&M University

Lane A Hurst, MS (lah005@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BSCJ, Sam Houston State University

Bibi Nazeema Hussain, MSN (bnh079@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Univ of Texas-Arlington

Aaron David Hyams, PHD (adh061@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Marquette University; MA, Univ of Montana-Missoula; BA, Marquette University

I

Jacqueline M Ingram, EDD (jmi002@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Texas A&M University; BS, Texas A&M University

J

Hope Pilar Jackson, PHD (hpj002@shsu.edu), *Visiting Assistant Professor of Nursing*, *School of Nursing*, PHD, Univ of Nebraska Med Center; MSN, Univ of Nebraska Med Center; BSN, Creighton University

Marcia Lynn Jackson, PHD (mlj064@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Walden University; MS, Radford University; BA, Virginia Wesleyan College

Parker Jackson, MS (psj003@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Linda Sue James, MS (lsj007@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MS, University of Toronto; BSN, University of Western Ontario

Angela Faith Jarrell, PHD (afs014@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, PHD, Texas Woman's University; MSN, Duquesne University; BSN, Univ of Tx Health Science Cntr

Gretchen L Jefferson, PHD (glj008@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Oregon

Boyce William Jeffries, DMA (bwj009@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Toronto; MM, California St Un-Sacramento; BM, California St Un-Sacramento

Amanda Erin Johnson, MA (aej005@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MA, Sam Houston State University; BA, Sam Houston State University

Maya E Johnson, PHD (mej030@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Texas A&M University; BS, Lincoln University

Desha Johnson Makiya, PHD (dxj016@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas At Tyler; MBA, University of Phoenix; BS, Alcorn State University

Domenique Elizabeth Jones, PHD (dej016@shsu.edu), *Lecturer of Human Sciences*, *Department of Human Sciences*, PHD, Univ of Tennessee-Knoxville; MS, Univ of North Texas; BS, Univ of North Texas

Dustin L Jones, PHD (dljones@shsu.edu), *Adjunct Faculty; Associate Dean COSET and Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Univ of Missouri-Columbia; MS, Texas A&M University; BS, Southwest Baptist University

Suzanne Smith Jones, MED (ssj027@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, MED, Univ of St Thomas; BS, Texas A&M University

William D Jones, PHD (wdj005@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Rice University; MA, Rice University; BA, Tulane University

Kelly Sue Jordan, MA (stdksr13@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Sam Houston State University

Magen Leigh Jordan, MPH (mlj032@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, MPH, Sam Houston State University; BS, Sam Houston State University

K

Randi Nicole Kalich, MSN (rnk014@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Un of Tx-HSC At Houston

Allen W. Kaminski, MS (awk002@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Sam Houston State University; BS, Sam Houston State University

Nichole J Karpel, EDD (njk017@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, George Washington University; MED, Penn State Un-Univ Park; BA, East Connecticut State Univ

Max Katz Crook, PHD (mxk095@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Nottingham

Soraya K Kawucha, PHD (skk003@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Univ of North Texas; BS, Univ of North Texas

Dustin Patrick Kay, MA (dpk009@shsu.edu), *Lecturer-Pool Faculty of Sociology*, *Department of Sociology*, MA, Sam Houston State University

William David Kenner, MFA (stdwdk12@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, New York University; BFA, Sam Houston State University

Darla Renee King, MS (drk013@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, Univ of North Texas

Leigh Anne Klawinsky, MED (stdlap12@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Misty Dawn Kleman, MBA (mdk048@shsu.edu), *Lecturer of Management*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Dallas Baptist University; BS, Oklahoma State University

Pat Ko, PHD (pxk018@shsu.edu), *Assistant Professor of Practice of Computer Science*, *Department of Computer Science*, PHD, Univ of Texas At Austin; MA, Texas State Univ-San Marcos; MS, Univ of N Carolina-Chapel Hill; ME, Cornell University; BS, Cornell University

Mehmet Gokhan Koseoglu, MS (mgk019@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, Middle East Technical Univ; BS, Middle East Technical Univ

Diana Oliphant Kukua, MS (dxk009@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, Sam Houston State University

Brittany Lynn Kutter, MED (blk009@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BA, Baylor University; BA, Baylor University

L

Travis Dale Lake, MFA (tlake@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, Univ of Utah

Kayed I Lakhia, MS (kxl069@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MS, Massachusetts Inst of Tech

James Victor Landrum, PHD (jvl016@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Texas At Austin; MS, Univ of Southern Mississippi; BS, Mississippi State University

Alexander L Langley, MS (all141@shsu.edu), *Lecturer-Pool Faculty of Psychology*, *Department of Psychology & Philosophy*, MS, Univ of North Texas; BS, Henderson State University

Albert Bakarr Lansana, MS (abl027@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Univ of Detroit; MA, Univ of Detroit; BS, Eastern Michigan University

Sheryl Laurente, MS (sxl146@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MS, Walden University; BS, West Visayas State University

Dustin Ray LeNorman, MS (dlenorman@shsu.edu), *Adjunct Faculty*, *Department of Kinesiology*, MS, Stephen F Austin University; BS, Sam Houston State University

Rudy Leal McCormack, PHD (rudymc@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Colorado State University; MA, Florida Int'L Univ; BA, Florida Int'L Univ; BA, Florida Int'L Univ

Adam Richard Lee, MBA (arl061@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MBA, Drury University; MS, Sam Houston State University; BA, Drury University; BA, Drury University

Jessica Ruth Lee, MA (jrl035@shsu.edu), *Senior Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

Townes Randolph Leigh, DO (trl027@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, DO, West Virginia School Osteo Med; BS, Univ of Tennessee-Martin

Olena Viacheslavivna Leipnik, PHD (oxl001@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Kharkiv VN Karazin Nat'l Univ; MA, Luhansk T. S. Pedagogical Univ; MA, Kyiv Taras Shevchenko Nat'l Un; BA, Kyiv Taras Shevchenko Nat'l Un

Li-Jen Yu Lester, EDD (lys001@shsu.edu), *Adjunct Faculty; Professor and Associate Dean COSET*, *Department of Computer Science*, EDD, Sam Houston State University; MA, Sam Houston State University; BS, Tahan Institute of Technology

Rebecca Lyn Lewis, MA (rll004@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MA, Texas Tech University; BA, Texas Tech University

Andra Danielle Lewis-Krick, PHD (adl054@shsu.edu), *Lecturer of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; MS, Univ of New Haven; BS, California St Un-Long Beach; BS, California St Un-Long Beach

Yirui Li, DMA (yxl074@shsu.edu), *Lecturer-Pool Faculty of Music*, *School of Music*, DMA, Univ of Oregon; MM, Suny College At Fredonia; BA, Tianjin University

Samuel Joseph Lippert, PHD (sjl054@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Montana; BS, Univ of Portland; BS, Univ of Portland

Rector Bill Livingston, MS (rbl003@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Texas A&M University

Cathy Lynn Lockwood, MS (cll011@shsu.edu), *Senior Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Mia Chandra Long Anderson, PHD (mcl055@shsu.edu), *Professor of Mass Communication; Interim Dean, CAM*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Tennessee-Knoxville; BA, Univ of Georgia

Donnie Aristidez Lopez, MA (dal042@shsu.edu), *Senior Lecturer of English*, *Department of English*, MA, Purdue University; BA, Univ of Houston-Downtown

Erin Margaret Lopez, PHD (eml059@shsu.edu), *Lecturer-Pool Faculty of Arts*, *Department of Art*, PHD, Temple University; MA, Bard College; BA, Sarah Lawrence College

Kirby Kincannon Luna, MA (kak075@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, MA, Sam Houston State University

Kevin Paul Lunsford, MS (kpl003@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Gabrielle Ryann Lyle, PHD (grl019@shsu.edu), *Visiting Assistant Professor of History*, *Department of History*, PHD, Texas A&M University; MA, Texas A&M University; BA, University of Tulsa

Candy Renee Lynch, MS (crl003@shsu.edu), *Associate Professor of Practice in Accounting*, *Department of Accounting*, MS, Sam Houston State University; BBA, Sam Houston State University

Phillip Mitchell Lyons, PHD (icc_pml@shsu.edu), *Professor of Security Studies; Dean, College of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Lincoln; JD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BS, Univ of Houston-Clear Lake

Elias John Lytton, MFA (ejl035@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Florida; BFA, Univ of Houston-Main

M

Nathan Machart, MFA (stdnpm12@shsu.edu), *Lecturer of English*, *Department of English*, MFA, University of Iowa; BA, Texas State Univ-San Marcos

Taha Ahmad Malik, PHD (tam095@shsu.edu), *Lecturer-Pool of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Texas-San Antonio; MS, Univ of Cambridge; BS, Imperial College, London

Tyler J Manolovitz, MS (tyler@shsu.edu), *Clinical Associate Professor, Newton Gresham Library*, *Department of Library Public Services*, MS, Univ of North Texas; BA, Dickinson State University

Sarita Shree Mantravadi, PHD (ssm052@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, Univ of Texas HSC-Houston; MS, California St Un-Los Angeles; MPH, California St Un-Long Beach; BA, California St Un-Dominguez Hil

Russell Wayne Marcontell, MFA (rwm020@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Uni de Guanajuato Inst Allende; BFA, Sam Houston State University

Michael Marsh, MED (mxm177@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Southeastern Oklahoma St Univ

Heath Garrett Martin, MM (hgm002@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *School of Music*, MM, Univ of Houston-Main; BM, Sam Houston State University

Kastan Lee Martin, MS (klm085@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, LSU & A&M College; BS, Sam Houston State University

Stephen A Martin, MM (stdsam28@shsu.edu), *Lecturer of Music*, *School of Music*, MM, New England Consv/Music; BM, Sam Houston State University

Aaron Paul Martinez, MM (stdapm14@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Sam Houston State University; BM, Sam Houston State University

Iris Martinez, MS (mxi004@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MS, Sam Houston State University; BA, Sam Houston State University

Amy Elizabeth Matthews, EDD (aeb131@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of St Thomas; MED, Texas A&M University; BS, Baylor University

Stephanie Ann Mayne, MSN (sam100@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas At Tyler; BSN, Sam Houston State University

Kerry Gordon Mc Arthur, PHD (kgm051@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, PHD, Univ of Arizona; MED, Univ of Houston-Main; BSED, Texas Tech University

Kimberly Walker McAlister, EDD (kwm019@shsu.edu), *Visiting Professor and Acting Chair of Counselor Education*, *Department of Counselor Education*, EDD, Univ of Louisiana-Monroe; MED, Northwestern St Un of Louisana; BS, Univ of Louisiana-Monroe

Darla Deann McBryde, MM (dxm121@shsu.edu), *Visiting Assistant Professor of Music*, *School of Music*, MM, Stephen F Austin University; BMED, Baylor University

Emily Jane McClellan, MA (ejg001@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

Patricia Ann McClure, MED (trish.mcclure@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BAT, Sam Houston State University

Floyd Henry McConnell, MA (fhm002@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Stephen F Austin University; BA, Texas A&M University

Michelle McLendon, MS (mxm445@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Texas Woman's University; BS, Univ of Texas-El Paso

Kathleen Elisabeth McMahon, MS (keg001@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; MA, Sam Houston State University; BS, Sam Houston State University

Edna Sue McMillan, MS (esm021@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Univ of Houston-Clear Lake; BS, Texas College

Ashley Baines McNeese, MA (abm072@shsu.edu), *Lecturer of English*, *Department of English*, MA, Liberty University; BCE, Southeastern Free Will Baptist

Aprille Daevonda McQueen, MS (adm104@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Sam Houston State University; MS, Prairie View A&M University; BS, Prairie View A&M University

Rebekah L McQueen, BM (rlc040@shsu.edu), *Lecturer of Music*, *School of Music*, BM, Sam Houston State University

Robert Wayne Mcqueen, MS (rwm021@shsu.edu), *Assistant Professor of Practice of Wildlife Management*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Eastern Kentucky University

Jeramy Paul Meacham, PHD (jpm073@shsu.edu), *Lecturer of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Jackson State University; MBA, McNeese State University; BS, Nicholls State University

Wilma Jane Mealer, MPAS (wjm026@shsu.edu), *Clinical Professor and Founding Director of the Physician Assistant Program*, *Department of Kinesiology*, MPAS, Univ of Texas-Pan American; BPAS, Univ of Texas-Pan American; BIS, Univ of Texas-Pan American

Julio Cesar Medina Lopez, MA (jcm048@shsu.edu), *Senior Lecturer of Spanish*, *Department of World Languages & Cultures*, MA, Sam Houston State University; LICEN, Universidad Contemporanea

Gurinderjit B. Mehta, PHD (mis_gbm@shsu.edu), *Lecturer of Management Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Panjab University; MS, Univ of North Texas; MED, Panjab University; MA, Panjab University; BED, Panjab University; BA, Panjab University; BA, Panjab University

Jenny Marie Meiss, MSN (jmm311@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas-Arlington; BSN, Univ of Texas-Arlington

Melissa Lee Meltzer, PHD (melissa.meltzer@shsu.edu), *Assistant Professor of Practice in Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Pennsylvania; MPH, Univ of Tx Health Science Cntr; MA, Sam Houston State University; BS, Univ of Houston-Main

Melissa Ann Merritt, MS (mam164@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, MS, Sam Houston State University; BACJ, Univ of Central Florida

Paige Alexandra Mertz, MS (paige.mertz@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MS, Colorado State University; BA, Sam Houston State University

Scott J Meyer, PHD (scottjamesmeyer@shsu.edu), *Assistant Professor of Practice in Paralegal Studies*, PHD, University of Glasgow; MAR, Yale University; LLM, University of Glasgow; BA, Samford University

Kayla Dee Middleton, EDD (kdm136@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Liberty University; MA, National University; BA, National University

Sahar Mihandoust, PHD (sxm320@shsu.edu), *Lecturer of Interior Design*, *Department of Human Sciences*, PHD, Texas Tech University; MA, Rensselaer Poly Inst; MA, Islamic Azad University; BA, Islamic Azad University

Alexander Mikishev, PHD (abm017@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, PHD, Perm State University; MS, Perm State University; BS, Perm State University

Angela Marie Miller, MSN (amm455@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ. of Texas-Med-Galveston

Robert Lloyd Milner, MBA (rlm088@shsu.edu), *Associate Professor of Practice in Entrepreneurship*, *Department of Business Admin & Entrep*, MBA, University of Phoenix; BS, Park University

Volha Minich, MS (vxm050@shsu.edu), *Senior Lecturer of Biological Sciences*, *Department of Biological Sciences*, MS, Stephen F Austin University; BS, Belarusian State University

Sabrina D MisirHiralall, EDD (sdm107@shsu.edu), *Lecturer-Pool Faculty of Philosophy*, *Department of Psychology & Philosophy*, EDD, Montclair State University; MA, New Jersey City University; BA, New Jersey City University

Lloyd Jason Mitchell, MAED (ljm076@shsu.edu), *Lecturer of Art*, *Department of Art*, MAED, Argosy University; BFA, Northern Arizona University

Benjamin Mitchell-Yellin, PHD (bxm040@shsu.edu), *Adjunct Faculty*, *Department of Psychology & Philosophy*, PHD, Univ of Calif-Riverside; MA, Boston College; BA, Univ of Michigan

Tudor Mitroi, MFA (tmitroi@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of North Texas; DIPL, Institute of Plastic Art

Charles Darrel Mize, EDD (cdm060@shsu.edu), *Lecturer of Management, Marketing and Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, EDD, Texas Tech University; MED, Texas Tech University; BA, Lubbock Christian University

Staci Elizabeth Mizell, EDD (sem108@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Univ of Houston-Clear Lake; MBA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

James Arnold Mobley, MD (jam187@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, MD, Univ of Texas HSC-San Antonio; MPH, Texas A&M University; BS, Texas A&M University

David Joseph Moeller, MD (djm087@shsu.edu), *Assistant Professor of Practice in Radiology*, *Department of Clinical Anatomy*, MD, Univ of Texas Medical Branch; MS, Saint Mary's College; BS, St Edwards University

Amaris Nicole Molina, PHD (anm180@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Univ of Texas-San Antonio; BA, Texas Tech University

Zachary A Montz, PHD (zmontz@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Univ of Texas At Austin; BA, Stanford University

Michael Copeland Moore, DVM (mcm014@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, DVM, Texas A&M University; BS, Texas A&M University; BS, Univ of Texas Medical Branch

Martin Morales, MCJ (mxm471@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MCJ, Tarleton State University; BAAS, Tarleton State University

Cindy Zuleyma Morataya, MSN (czm002@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Un of Tx-HSC At Houston; BSN, Un of Tx-HSC At Houston

Brandon R Morrison, MBA (brm030@shsu.edu), *System Analyst II, Adjunct Faculty*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Wayland Baptist University

Stephen Lee Morrison, PHD (sxm130@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Southern Mississippi; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Katie Elaine Moses, EDD (kem144@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Lamar University; MED, Stephen F Austin University; BS, Stephen F Austin University

Iason Vasileios Moutzouris, PHD (ixm089@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Purdue University; BS, National and Kapodistrian University of Athens

Lindsey Elizabeth Mudge, MS (lxm098@shsu.edu), *Associate Professor of Practice in Accounting*, *Department of Accounting*, MS, Texas A&M University; BBA, Texas A&M University

Stephen Mujeye, PHD (sxm350@shsu.edu), *Assistant Professor of Practice in Computer & Information Systems & Security*, PHD, Nova Southeastern University; MSA, Central Michigan Univ; BBA, Siena Heights College; BBA, Siena Heights College

Kelly Leean Muns, MFA (klm022@shsu.edu), *Clinical Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Abilene Christian University

Benjamin Michael Muraida, MS (bmm120@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Purdue University Global; BS, Purdue University Global

Michael K Murphy, MBA (mkm092@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MBA, Rice University; BA, Saint Mary's-Ca

Divya Murthy, MFA (divyam@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Tufts University; BFA, Univ of Houston-Main

Rebecca Myers, MED (rmp037@shsu.edu), *Lecturer of Spanish*, *Department of World Languages & Cultures*, MED, Sam Houston State University; BS, Utah State University

Sujey C Myers, MA (scm025@shsu.edu), *Senior Lecturer of Spanish*, *Department of World Languages & Cultures*, MA, Sam Houston State University; BA, Sam Houston State University

N

Albert Nardone, PHD (ajn007@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, PHD, Univ of New Mexico; MED, Sul Ross State University; MED, Sul Ross State University; MA, New York University; BSED, Peru State College

Karen Lee Nelson, PHD (kln005@shsu.edu), *Assistant Professor of Clinical Psychology*, *Department of Primary Care & Clinical Medi*, PHD, Univ of Houston-Main; MED, Univ of Houston-Main; BA, Southwestern University

Erin Jean Neve, MFA (eneve@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Minnesota; MAE, Texas Tech University; MA, Texas Tech University; BA, Texas Tech University

Ray Gene Newman, PHD (rgn006@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, New York University; MPHIL, New York University; MBA, California St Un-Long Beach; BS, East Central University

Haitrieu Thi Nguyen, MA (htn003@shsu.edu), *Lecturer of Sociology*, *Department of Sociology*, MA, Sam Houston State University; BA, Southwestern University

Kristin Leigh Nicholson, PHD (kln017@shsu.edu), *Assistant Professor of Practice of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Simeon Sreyas Nittala, DO (sxn067@shsu.edu), *Assistant Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Midwestern Univ; BS, Univ of Illinois-Chicago

Kenneth E Noe, PHD (ken026@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Southern Illinois U-Carbondale; MA, Loyola Marymount University; BA, Georgia Southern University

Fawzi Mohamed Noman, MBA (fnoman@shsu.edu), *Staff Assistant Dean - COBA; Adjunct Faculty*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Sam Houston State University; BS, Univ of Houston-Main

Adam Jay Norris, MFA (ajn032@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Western Illinois University

Ralph Coleman Norris, PHD (rcn006@shsu.edu), *Lecturer of English*, *Department of English*, PHD, University of Wales; MA, Georgia State University; BA, Kennesaw State University

Rebecca Maria Novotny, EDD (stdrmn11@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Sam Houston State University; MLS, Sam Houston State University; BA, Marymount College

Jimmy D Nowell, EDD (jdn040@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Univ of Houston-Main; MM, Rice University; BME, Baylor University

Michael Edwin Noyes, PHD (men014@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Allegheny College

O

Caitlin O'Connell, PHD (cmo042@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Pittsburg; BS, Univ of Rochester

Ronald B O'Neal, PHD (boneal@shsu.edu), *Assistant Professor of Practice in Mass Communication*, *Department of Mass Communication*, PHD, Our Lady of Lake University; MBA, University of Phoenix; BA, Howard University

Simmie Mirinda Oden, MA (smo006@shsu.edu), *Senior Lecturer of Kinesiology*, *Department of Kinesiology*, MA, Sam Houston State University; BS, Texas A&M University

Rebecca A Okungu, MSN (rao019@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, Prairie View A&M University; BSN, Prairie View A&M University

Tyler Brandon Orcutt, BFA (tbo006@shsu.edu), *Lecturer of Dance*, *Department of Dance*, BFA, Univ of South Florida

Christopher John Orta, MS (cjo023@shsu.edu), *Lecturer of American Sign Language*, *Department of World Languages & Cultures*, MS, Lamar University; BA, Univ of Houston-Main

Robert Benjamin Osborne, MM (rbo002@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Southern Methodist University; BM, Texas Tech University

Lauren Elizabeth Owens, MA (leo017@shsu.edu), *Lauren Owens*, *Department of English*, MA, Stephen F Austin University; BA, Stephen F Austin University

P

Morgan C Page-Rice, MFA (mcp067@shsu.edu), *Visiting Assistant Professor of Art*, *Department of Art*, MFA, Rutgers, The St Un of Nj; BFA, Univ of Houston-Main

Jill Saundra Pagels, EDD (jsp018@shsu.edu), *Clinical Assistant Professor of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Univ of Arizona

Anne Genevieve Papa-Torres, MSN (agp050@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, University of Phoenix; BS, Remedios Romualdez Memorial Schools

Michelle Renae Parker, EDD (stdmrh14@shsu.edu), *Assistant Professor of Practice of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Sam Houston State University

Katherine Cabaniss Parsley, JD (kcp033@shsu.edu), *Assistant Professor of Practice for Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, Pepperdine Univ; BS, Pepperdine Univ

Christopher Francis Patane, PHD (cfp009@shsu.edu), *Senior Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Missouri-Columbia; MA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia

Nilam Patel, MA (nxp019@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BS, Rice University

Heshan Aravinda Pathirannehelage, PHD (heshap@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Florida; MS, Univ of Florida; BSC, University of Kelaniya

Gary Lynn Payne, MBA (glp001@shsu.edu), *Senior Lecturer of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, MBA, Sam Houston State University; BBA, Texas State Univ-San Marcos

Megan Joseph Penney, MMED (mjp088@shsu.edu), *Lecturer-Pool Faculty of Music*, *School of Music*, MMED, Univ of Kansas; BA, Texas Christian University; BA, Texas Christian University

Amanda Pepping, DM (ajp028@shsu.edu), *Lecturer of Music*, *School of Music*, DM, Univ of Texas At Austin; MBA, Sam Houston State University; MM, Arizona State University; BM, Arizona State University

Samuel L Perkins, PHD (slp018@shsu.edu), *Lecturer of Chemistry*, *Department of Chemistry*, PHD, Texas A&M University; BS, Univ of Texas At Austin

Audrey Flores Petty, MA (afp016@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Stephen F Austin University; BS, Stephen F Austin University

Benjamin Scott Petty, MED (stdbsp11@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, MED, Sam Houston State University; BS, Florida College

Michael Carson Pinney, MA (mcp063@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Univ of Houston-Clear Lake; BA, Univ of Texas At Austin; BA, Univ of Texas At Austin

Prasopsuk Yabsantiya Pinto, EDD (pyp001@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MS, Texas A&M-Kingsville; BED, Chulalongkorn University

Penny Cryer Pitrucha, MA (ppitrucha@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Sam Houston State University

Charlotte Lindsey Pitts, EDD (cxl094@shsu.edu), *Lecturer of English*, *Department of English*, EDD, Univ of Houston-Clear Lake; MED, Univ of Nevada-Las Vegas; BS, Univ of Houston-Clear Lake

Erin Nicole Pitts, MA (enp008@shsu.edu), *Clinical Assistant Professor of Counselor Education*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

Amy Noelle Porter, PHD (anp080@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Duquesne University; MS, Duquesne University; BS, Saint Vincent College

Jake Alan Portie, MFA (jap098@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BFA, Sam Houston State University

Stephanie Kathryn Potter, MD (skp037@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Baylor College of Medicine; BS, Texas A&M University

Megan Becker Powell, MD (stdmdb26@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Univ. of Texas-Med-Galveston; BS, Sam Houston State University

Debra Patricia Price, PHD (edu_dpp@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MED, LSU & A&M College; BS, Univ of Colorado

Rebecca Ann Price, MS (stdrap18@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Ashley Elizabeth Pruitt, MS (apruitt@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MS, Stephen F Austin University; BS, Stephen F Austin University

Daniel Gerard Puhl, MS (dgp016@shsu.edu), *Lecturer of Accounting*, *Department of Accounting*, MS, Liberty University; MSST, US Army War College; MBA, Metropolitan State University; BS, Univ of Minnesota

David L Pulling, MA (dlp059@shsu.edu), *Lecturer of English*, *Department of English*, MA, Univ of Louisiana-Lafayette; BA, Louisiana College

R

Christopher Justin Rabe, MS (cjr067@shsu.edu), *Assistant Professor of Practice in Engineering Technology*, *Department of Engineering Technology*, MS, Texas A&M-Kingsville; BS, Texas A&M-Kingsville

Lauren Irma Rabe, DPA (lauren.rabe@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, DPA, California Baptist University; MPA, Univ of Texas-Pan American; BS, Texas A&M-Kingsville

Patricia Kay Ramsay, MFA (pxr015@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Syracuse University; BFA, The University of the Arts

Debra A Rawlins, MMED (dhr001@shsu.edu), *Lecturer of Music*, *School of Music*, MMED, Texas Tech University; BMED, Texas Tech University

Jonathan M Read, MFA (jmr138@shsu.edu), *Lecturer of of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Univ of Houston-Main

Rosa Martinez Readore, EDD (stdrmv11@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Sam Houston State University

Robert Wesley Reddicks, MS (rwr016@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Hope Althea Reeves, MSN (har029@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Houston-Main; BSN, Thomas Jefferson Univ

Jennifer Muir Reeves, DNP (jmr179@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, DNP, Univ of Texas-Arlington; MSN, Univ of Texas HSC-Houston; BSN, Univ of Texas-Arlington

Jacob Daniel Regan, MFA (jacobregan@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, East Carolina Univ

William Francis Reilly Jr., MFA (wfr005@shsu.edu), *Clinical Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, American Film Inst Conservator; BA, Columbia College-Chicago

Gary L Rhame, DO (glr024@shsu.edu), *Assistant Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Univ of N. Texas Hlth Sci Cnt; BS, Stephen F Austin University

Robert W. Rice, PHD (rgs_rwr@shsu.edu), *Assistant Professor of Practice in Anatomical Sciences*, *Department of Clinical Anatomy*, PHD, New York Medical College; MS, New York Medical College; AB, Cornell University

Nathan Joseph Ridings, MFA (njr004@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Sam Houston State University

I Andreas Larsen Riise, MA (aar167@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Argosy University; BS, United States Military Academy

Kiana Rios-Mangual, MFA (kxr008@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Sam Houston State University

Tracy Ann Robbins, MFA (tar056@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Cincinnati; BFA, Art Academy of Cincinnati

Tamara Robert, MED (txr054@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MED, Georgia State University; BS, Univ of Alabama-Birmingham

Shani Nicole Robinson, PHD (snr001@shsu.edu), *Senior Associate Dean, COBA; Adjunct Faculty*, *Department of Accounting*, PHD, Univ of North Texas; MBA, Sam Houston State University; BBA, Sam Houston State University

Ruby Rodriguez Almendarez, PHD (stdrxr13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Sam Houston State University; BACJ, Sam Houston State University; BS, Sam Houston State University

Diego Antonio Rojas, PHD (dar117@shsu.edu), *Visiting Assistant Professor of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Iowa State University; BS, Univ of Florida; BS, Univ of Florida

Carl Allen Root, PHD (cxr116@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of South Florida; MS, Eastern Kentucky University; BA, Eastern Kentucky University; BA, Eastern Kentucky University; BA, Eastern Kentucky University

Robert Ellis Roush, EDD (rer022@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, EDD, Univ of Houston-Main; MPH, Univ of Texas HSC-Houston; MED, Sam Houston State University; BS, Sam Houston State University

Charlotte Neleen Royall, MM (cnr039@shsu.edu), *Lecturer-Pool Faculty (COE)*, *Department of Teaching & Learning*, MM, Sam Houston State University; BM, Univ of Houston-Main

Jack Dennis Runyan, PHD (jxr136@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, Univ of New Mexico; MA, Univ of Houston-Clear Lake; BS, Univ of Texas Medical Branch

Eugene Ryman, MS (ejr033@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, New York University; BS, New York University

S

Mark Christopher Saber, PHD (marksaber@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; MA, Univ of Texas-Arlington; BA, Univ of Texas-Arlington

Andrea Sanchez, MSW (axs075@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MSW, Univ of Houston-Main; BA, Univ of Texas At Austin

Brent W Sanderlin, DO (b.sanderlin@shsu.edu), *Associate Professor of Family Medicine; Chair, Primary Care & Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of North TX Hlth Sci Cntr; BS, Texas State Univ-San Marcos

Victoria Sandoval, MA (vxs031@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Sam Houston State University

Melissa Banik Saphos, MED (mbs051@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Univ of Texas-Arlington; BS, Sam Houston State University

Elizabeth Harris Sargent, DO (ehs008@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, William Carey University; BA, Univ of Mississippi

Katherine N Saunders Wickes, PHD (knw085@shsu.edu), *Lecturer-Pool Faculty of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Texas A&M University; BA, George Mason University

Rhonda Gayle Savoy, MS (stdrgs14@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, MS, Sam Houston State University; BAAS, Sam Houston State University

Rachel Marie Scherer, MA (rmb001@shsu.edu), *Instructional Design Spclst, Adjunct Faculty*, *Department of Engineering Technology*, MA, Sam Houston State University; BS, Sam Houston State University

Bennie Lee Schiro, JD (bls025@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, JD, Oklahoma City Univ; BSCJ, Sam Houston State University

Bradley Allen Seaberg, MA (bas029@shsu.edu), *Senior Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

Madison Kendall Seagraves, MS (mks040@shsu.edu), *Academic Recovery Coordinator; Adjunct Faculty*, *Department of University Wide*, MS, Sam Houston State University; BS, Sam Houston State University

Michelle Lyn Seagraves, MED (mls119@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MED, Sam Houston State University; BS, Sam Houston State University

Christina Marie Seeger, MLS (seeger@shsu.edu), *Clinical Assistant Professor, Newton Gresham Library*, *Department of Library Public Services*, MLS, Emporia State University; BA, California St Un-Long Beach

Sharmistha Self, PHD (sxs257@shsu.edu), *Professor of Economics and Dean of the College of Business Administration*, *Department of Economics & Intl Business*, PHD, Southern Illinois U-Carbondale; MA, Jadavpur University; BED, Annamalai University; BA, Jadavpur University

Ama Ayehbea Sewordor, MA (aas178@shsu.edu), *Lecturer of French*, *Department of World Languages & Cultures*, MA, Univ of Arizona; BA, University of Ghana; BA, University of Ghana

Angela Elisabeth Shaffer, MA (aes075@shsu.edu), *Lecturer of English*, *Department of English*, MA, Angelo State University; BA, Angelo State University

Michael Anthony Shanks, MM (mas314@shsu.edu), *Lecturer of Musci*, *School of Music*, MM, Berklee College of Music; BA, Univ of Texas At Austin

Tannie H Shannon, MA (ths001@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BA, Sam Houston State University

David Cameron Shields, PHD (dcs048@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Regent University; MS, Nova Southeastern University; BS, University of Mount Olive

Jooyoung Shin, PHD (jxs361@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Kent State University; MS, Kent State University; BS, Kyung Hee Univ Seoul

Gregg Stephen Silberg, DO (gss023@shsu.edu), *Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Kansas City Univ of Med&BioSci; MBA, Univ of Tennessee-Knoxville; BS, Drake University

Melissa Janette Silvera, MSN (mxs180@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Grand Canyon Univ.; BSN, Grand Canyon Univ.

Valeece Linyae Simmons-Davis, EDD (vls035@shsu.edu), *Assistant Professor of Practice in Education*, *Department of Teaching & Learning*, EDD, Univ of Louisiana-Monroe; MED, Northwestern St Un of Louisana; BS, McNeese State University

Barbara Ann Sims, PHD (bas108@shsu.edu), *Lecturer of Victim Studies*, *Department of Victim Studies*, PHD, Sam Houston State University; MA, Univ of Arkansas-Little Rock; BA, Univ of Arkansas-Little Rock

Janet G Sipes, PHD (jgs050@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Arizona State University; MA, Univ of Missouri-Columbia; MS, Texas Woman's University; BA, East Texas A&M

Pamela Forester Slagle, MSN (pfs004@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, MSN, University of Phoenix; BS, Univ of Mary Hardin Baylor

Margaret Garnett Smallwood, MA (mgs043@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; MBA, Univ of Texas At Dallas; BA, Univ of Calif-Santa Barbara

Chance Adam Smith, PHD (cas280@shsu.edu), *Lecturer of Sociology*, *Department of Sociology*, PHD, Cornell University; MA, Cornell University; BS, Univ of Houston-Main

Patrick Andrew Smith, MED (pas034@shsu.edu), *Adjunct Faculty*, *Department of Library Sci & Technology*, MED, Arizona State University; BA, West Liberty State College

Treston Mace Smith, MA (tms061@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, MA, Sam Houston State University; BS, Sam Houston State University

Beverly Ann Smith-Edwards, PHD (bas076@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Univ of Oklahoma-Norman; MLIS, Univ of Oklahoma-Norman; BSED, Mayville State University

Paul Bradley Smithers, MS (pbs007@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Univ of Houston-Downtown

Anne Bennett Cook Smithson, PHD (abs055@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, George Mason University; JD, Northern Kentucky; MA, Georgetown University; BA, Univ of Kentucky

Jennifer Leigh Snedeker, BS (jls191@shsu.edu), *Post Doctoral Fellow of Forensic Science*, *Department of Forensic Science*, BS, Michigan State University

Mark Scott Solly, MARCH (mss086@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MARCH, Academy of Art University; BS, University of Phoenix

Limesha Monique Solomon, MA (lmh056@shsu.edu), *Lecturer of Sociology*, *Department of Sociology*, MA, Sam Houston State University; MED, Sam Houston State University; BA, Univ of North Texas

Dodie Janice Spencer, EDD (stddjs15@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Sam Houston State University; BA, Sam Houston State University

James Frank Spicer, MS (jfs031@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, MS, Texas A&M University; BS, Stephen F Austin University

Jacob Walter Spradlin, MED (ucs_jws@shsu.edu), *Adjunct Faculty*, *Department of University Wide*, MED, Sam Houston State University; BA, Sam Houston State University

Jeffrey Alan Springer, EDD (jas282@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Concordia University; MSSC, U.S. Sports Academy; BAT, Sam Houston State University

Colin P. St. Martin, MM (cxs179@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Indiana University

Ava Cheryl Stanczak, DO (acs143@shsu.edu), *Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Univ of North TX Hlth Sci Cntr; BA, Univ of North Texas

Clinton Lawrence Staub, MS (cls101@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, MS, Stephen F Austin University; BS, Stephen F Austin University

David D Stender, MCJ (dxs127@shsu.edu), *Adjunct*, *Department of Security Studies*, MCJ, Boston University

Kristen Renee Stevens, MM (kxs114@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Sam Houston State University; BME, Houston Christian University

Christopher Ray Stewart, MS (crs003@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Sandra K Stewart, EDD (sks050@shsu.edu), *Clinical Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Stephen F Austin University; MED, Stephen F Austin University; BS, Stephen F Austin University

Shantha Y Stokes, PHD (sys003@shsu.edu), *Asst Dir Counseling Center, Adjunct Faculty*, *Department of University Wide*, PHD, Roosevelt University; MA, Roosevelt University; BA, University of Iowa

James D Sugg, PHD (jds233@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Mst Rasheda Sultana, PHD (mxs218@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, PHD, Grad Sch & Univ Center; MPHIL, Grad Sch & Univ Center; MSC, University of Dhaka; BSC, University of Dhaka

Jennifer Shaw Swailes, MA (jss085@shsu.edu), *Lecturer of English*, *Department of English*, MA, Univ of Houston-Clear Lake; BS, Univ of Texas At Austin

Amanda K Swain, MM (aks078@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Northwestern University; BM, Univ of Texas At Austin

Madeleine Jean Swortwood, PHD (mjs079@shsu.edu), *Lecturer of Forensic Science*, *Department of Forensic Science*, PHD, Florida Int'L Univ; BA, Duquesne University

Muhammad Hashir Syed, PHD (syed@shsu.edu), *Visiting Assistant Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Southern Methodist University; MS, Istanbul Univ; BE, Karachi Institute of Economics & Technology

T

Dominique Tarpey, MA (dxt060@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MA, Naval Postgrad Schl; MA, Univ of Denver; BA, Syracuse University

Chelsea Brieanne Taylor, MFA (cbt012@shsu.edu), *Lecturer of Art*, *Department of Art*, MFA, Univ of Colorado; BFA, Sam Houston State University

Peggy Hejtmancik Taylor, MD (pht005@shsu.edu), *Assistant Professor of Obstetrics and Gynecology*, *Department of Primary Care & Clinical Medi*, MD, Univ of Texas HSC-Houston; MS, Sam Houston State University; BA, Texas A&M University

Terry Mark Thibodeaux, PHD (scm_tmt@shsu.edu), *Lecturer of Communication Studies; Professor Emeritus*, *Department of Communication Studies*, PHD, Univ of Southern Mississippi; MED, McNeese State University; BA, McNeese State University

Sharon Anne Thomas, PHD (sat053@shsu.edu), *Lecturer of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Hawaii At Manoa; MA, Univ of Kentucky

Jamie Lane Thompson, EDD (jamiethompson@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BS, Sam Houston State University

Katrina Leigh Thornton, MA (kthornton@shsu.edu), *Lecturer of English*, *Department of English*, MA, Sam Houston State University; BS, Sam Houston State University

Cammie Jo Tipton, MA (cjt060@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Univ of Houston-Main; BA, Wesleyan College

Mary Mercedes Tomkins, PHD (mmt046@shsu.edu), *Lecturer of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MS, Abilene Christian University; BS, Abilene Christian University

Steven Craig Toney, MED (sct017@shsu.edu), *Superintendent of Schools*, *Department of Educational Leadership*, MED, Texas A&M-Texarkana; MEDI, Southwest Baptist Theo Seminar

Tanesha Michelle Tran, DNP (tmt055@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Univ. of Texas-Med-Galveston; MSN, Univ. of Texas-Med-Galveston; BSN, Texas Tech Univ-Hlth Sci Cntr

Veronica Diana Tristan, EDD (vdt001@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Downtown; MED, Sam Houston State University; BA, Univ of Houston-Downtown

Lana Francine Trotter, PHD (lfc013@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas-San Antonio; BA, Univ of North Texas

Rawya Ahmad Tubaishat, MS (rat037@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Prairie View A&M University

David Leon Tumlinson, MS (dlt013@shsu.edu), *Lecturer of Criminal Justice & Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BA, St Mary's University

Keila E Tyner, PHD (kxt033@shsu.edu), *Associate Professor of Practice in Fashion Merchandising*, *Department of Human Sciences*, PHD, Iowa State University; MS, Colorado State University; BS, Texas Christian University

U

Oluchi Chimyerem Ujoatu, DNP (ocu004@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Prairie View A&M University; MSN, Walden University

Efrain Francisco Uribe, PHD (stdexu13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MED, Sam Houston State University; BA, Univ of Texas-Brownsville

V

Tina Michelle Valenzuela, EDD (tmv017@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Kansas State University; MS, Pittsburg State University; BS, Pittsburg State University

Mayra Danielle Vargas, PHD (mdv026@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BS, Sam Houston State University

Mihai Vatca, DMA (mxv029@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Sam Houston State University; BFA, Gheorghe Dima Music Academy

Jill Sharp Vaughan, BBA (jls227@shsu.edu), *Assistant Professor of Practice and Smith-Hutson Endowed Chair of Banking*, *Department of Finance & Banking*, BBA, Sam Houston State University

Sergio A Velasquez, MED (sav041@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MED, Univ of Texas-Brownsville; BS, Univ of Texas-Brownsville; BS, Univ of Texas-Brownsville

Tabitha M Venable, MA (tmv015@shsu.edu), *Lecturer of American Sign Language*, *Department of World Languages & Cultures*, MA, Gallaudet University; BA, Gallaudet University

Stacey Lynn Victor, EDD (sedmonson@shsu.edu), *Professor of Education and Dean, College of Education*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BA, Texas A&M University

Maureen Victoria, PHD (mxv100@shsu.edu), *Assistant Professor of Practice in Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Univ of Missouri-Columbia; BS, Texas State Univ-San Marcos

Shelby Alverson Villarreal, MA (sna013@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Texas A&M University

Tracy Lynn Voelker, MED (tlv013@shsu.edu), *Lecturer of Teaching and Learning*, *Department of Teaching & Learning*, MED, Univ of Houston-Victoria; BS, Texas State Univ-San Marcos

W

Kimberly M Waaso, DO (kmw135@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Kansas City Univ of Med&BioSci; BS, Michigan State University

Amanda Norman Waites, MFA (ann034@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *Department of Theatre & Musical Theatre*, MFA, Tulane University; BM, Loyola Univ-New Orleans

Heather Ellen Walker, DNP (hew027@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Univ of Texas At Austin; MSN, Capella University; BSN, Univ of Texas At Austin

Candace Lynn Walkley, MD (clw117@shsu.edu), *Assistant Professor of Internal Medicine*, *Department of Primary Care & Clinical Medi*, MD, Univ of Texas SW Medical Cente; BS, Univ of Texas-Arlington

Heather Jean Wall, BARCH (hwall@shsu.edu), *Assistant Professor of Practice of Interior Design*, *Department of Human Sciences*, BARCH, Univ of Southern California

Courtney Nicole Wallace, MA (cnw008@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, MA, Sam Houston State University; BS, Sam Houston State University

Renece Waller-Wise, DNP (rxw029@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Troy University; BS, Univ of Alabama-Birmingham; BSN, Univ of Alabama-Birmingham

Yu Wang, MS (yxw026@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Texas A&M University; BS, North Dakota State University

Steve Warkentin, MM (stevewarkentin@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Northwestern University; BM, University of Toronto

Rachel Henderson Warren, MED (stdrhw11@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Stephen F Austin University

Thomas Ray Warren, MS (trw002@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Michesha Sherrelle Washington, MA (msk017@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Texas Southern University; BA, Texas State Univ-San Marcos

Rita J Watkins, EDD (icc_rjw@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, EDD, Sam Houston State University; MA, Sam Houston State University; MPA, Texas A&M University; BS, Sam Houston State University

Penny Lea Watson, MA (plw010@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, MA, Sam Houston State University; BA, Sam Houston State University

Cheryl M Watts, MED (cmw022@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Univ of North Texas; BAT, Sam Houston State University

Terrence R Waugh, PHD (trw006@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Omaha; BA, Creighton University

John Barry WeHunt, ME (jbw037@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, ME, Univ of Texas-Arlington; BS, Purdue University

Melinda Rachelle Weathers, PHD (mweathers@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, George Mason University; MA, Univ of Houston-Main; BA, Texas A&M University

Laura Marlise Weaver, MA (lmw083@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MA, Univ of Texas-Arlington; BA, Univ of Texas-Arlington

Vanessa Rochelle Weaver, DNP (vrw010@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, DNP, Univ of Alabama-Tuscaloosa; MSN, Prairie View A&M University; BSN, Prairie View A&M University

Emily E Weber, MS (eew019@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, MS, Sam Houston State University; BA, University of Iowa

Kelly Lynn Matheney Weikle, PHD (klw121@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, Ohio University; MA, Ohio University; MMC, Univ of S Carolina-Columbia; BSJ, West Virginia University

Susan Keaton Weimer, MS (skw019@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MS, Western Governors University; BS, Western Governors University

Edith Carol Wells, MFA (ediewells@shsu.edu), *Assistant Professor of Practice in Art*, *Department of Art*, MFA, Goddard College; MA, Southwest Baptist Theo Seminar; BS, Auburn University

Danielle Nicole White, PHD (stddnw13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MED, Lamar University; BS, Univ of Houston-Downtown

William Christopher Whitmire, MFA (wcw009@shsu.edu), *Lecturer of English*, *Department of English*, MFA, Sam Houston State University; BA, Sam Houston State University

Amy Saxton Wiggs, MM (axs116@shsu.edu), *Lecturer of Music*, *School of Music*, MM, Rice University; BM, Rice University

Nelka Chithrani Wijesinghe, PHD (ncw020@shsu.edu), *Lecturer of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BSC, Univ of Peradeniya

Rachael M Wilcox, EDD (rmw017@shsu.edu), *Senior Lecturer of Kinesiology*, *Department of Kinesiology*, EDD, Sam Houston State University; MA, Sam Houston State University; BS, Suny At Plattsburgh

Matthew Stephen Williams, MS (mww013@shsu.edu), *Lecturer of Mathematics and Statistics*, *Department of Mathematics & Statistics*, MS, Sam Houston State University; BS, Sam Houston State University

Natasha Shah Williams, MD (nxs059@shsu.edu), *Assistant Professor of Pediatrics*, *Department of Primary Care & Clinical Medi*, MD, Texas A&M University; BS, Univ of Texas At Austin

Trevor C Williams, MA (tcw025@shsu.edu), *Adjunct*, *Department of Kinesiology*, MA, Sam Houston State University; BS, Univ of Delaware

Willie Royce Williams, MFA (wrw010@shsu.edu), *Professor of Practice of Art*, *Department of Art*, MFA, Univ of Southern California; BFA, Texas A&M-Kingsville

Susannah Leigh Williamson, PHD (sxw058@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Teachers College Columbia Univ; BA, Brown University; BA, Brown University

Martha E Willis, MA (mew055@shsu.edu), *Lecturer of Art*, *Department of Art*, MA, Univ of Houston-Clear Lake; BA, Univ of Houston-Clear Lake

Linda Ransdell Wilmoth, MED (stdlrw11@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MED, Sam Houston State University; BS, Sam Houston State University

Brent Young Wilson, MS (byw002@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MS, Sam Houston State University; BS, Sam Houston State University

Marsha Clark Wilson, MBA (mcw021@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MBA, Univ of Houston-Main; BS, Univ of Texas At Austin

Mary Catherine Brown Wilson, MS (mcb059@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Beth Inwood Windisch, MA (biw005@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MA, Naval Postgrad Schl; MA, National Defense University; BA, Indiana University

Chelsea Baker Winkelmann, MAOM (cab052@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, MAOM, American College of Acupuncture & Oriental Medicine

Mary K. Wisenbaker, EDD (mkw033@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MA, Sam Houston State University; BA, Univ of Houston-Main

Connor L. Woods, BS (cwoodspa@shsu.edu), *Clinical Assistant Professor for the proposed Physician Assistant Studies Prog*, *Department of Kinesiology*, BS, Sam Houston State University; CERT, Seton Hall University

Megan Leigh Woolford, MD (mlw090@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, MD, Baylor College of Medicine; BS, Texas A&M University

Paul J Worosello, MM (pjw009@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MM, West Texas A&M State Univ; BM, West Texas A&M State Univ

Warren Brandon Wright, MED (wbw007@shsu.edu), *Lecturer of Education*, *Department of Counselor Education*, MED, Georgia Southern University; BS, Georgia Southern University

Brooklynn Joy Wynveen, PHD (bjw028@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Clemson University; MNRD, Texas A&M University; BA, Univ of Maryland-Univ Coll

X

Yue Xie, PHD (yxx008@shsu.edu), *Associate Professor of Practice in Public Health*, *Department of Public Health*, PHD, Univ of Tx Health Science Cntr; ME, Massachusetts Inst of Tech; MHA, Tulane University; BBA, Univ of Miami

Y

Emefa Yador, DNP (exy015@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, DNP, Baylor University; MHA, University of Phoenix; MS, University of Phoenix; BS, Bloomfield College

Richard Michael Yawn, MA (mike.yawn@shsu.edu), *Adjunct Faculty*, *Department of Political Science*, MA, Sam Houston State University; BS, Sam Houston State University

Jesse Holland Yeager, MS (jho006@shsu.edu), *Lecturer of Accounting*, *Department of Accounting*, MS, Texas A&M University; BBA, Texas A&M University

Erin Yerby, PHD (exy017@shsu.edu), *Lecturer-Pool Faculty of Arts*, *Department of Art*, PHD, Columbia University; MFA, Virginia Commonwealth Univ; MPHIL, Columbia University; AM, Columbia University; MA, Univ of Minnesota; MTS, Duke University; BA, Colorado College

Audrey Gwen Young, EDD (agy008@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Stephen F Austin University; MED, National-Loouis Univers; BA, Univ of Central Florida

Margaret Sucec Young, MED (msyoung@shsu.edu), *Lecturer of Mathematics*, *Department of Mathematics & Statistics*, MED, Sam Houston State University; BS, Texas A&M University

Marsha Muecke Young, PHD (mmy008@shsu.edu), *Visiting Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Baylor University; MA, Baylor University; MS, Sam Houston State University; BS, Sam Houston State University

Russell Lee Young, PHD (stdrly@shsu.edu), *Assistant Professor of Practice of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Arkansas Tech University; MA, Sam Houston State University; BS, Sam Houston State University

Natasha Young Risher, MED (nxy007@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, MED, Texas Southern University; BA, Univ of Houston-Main

Angelena Richje Yulee-Smith, MED (ary019@shsu.edu), *Lecturer of Psychology and Philosophy*, *Department of Psychology & Philosophy*, MED, Univ of Oklahoma-Norman; BA, Chapman University

Z

Paul W Zarutskie, MD (pwz001@shsu.edu), *Associate Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Drexel University; BS, Duke University; BS, Duke University

Zhongxing Zeng, PHD (zxz012@shsu.edu), *Lecturer of English*, *Department of English*, PHD, Arizona State University; MA, Arizona State University; BA, Shandong University

Kelly Kristine Zinn, PHD (kkzinn@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, PHD, Loyola Univ-Chicago; MS, Univ of Nebraska Med Center; BSN, Clarkson College

Lance D Zuckero, MSN (ldz002@shsu.edu), *Lecturer of Nursing*, *School of Nursing*, MSN, Univ of Texas HSC-Houston; BSN, Univ of Texas HSC-Houston

Glossary

Academic Advisor
A professional who helps students with academic and career planning.

Academic Calendar
A calendar indicating key dates and deadlines for important academic requirements and/or activities including, but not limited to, the start and end dates of classes, holidays, exam days, and registration dates.

Academic Year
The time frame from the start of a fall semester until the start of the subsequent fall semester. It typically is divided into the fall, spring, and summer semesters.

Accreditation
An endorsement from an oversight organization indicating that the educational institution and/or academic degree program meets or exceeds specific measures of quality.

Advanced Courses
Courses with content designed to be taken during the junior or senior year. At SHSU, these courses are numbered in the 300s or 400s.

Advanced Credit
Credit earned for advanced courses at universities. Courses transferred from a community college do not earn advanced credit.

Audit, Course
Enrollment in a course as a non-credit seeking student, with no record on the transcript.

Bachelor's Degree

An academic credential from a university earned after completing a specific program of study. Typically, the program of study will include a general education component, a major, degree related requirements, and electives and/or a minor. The minimum number of credits is 120 hours.

CLEP
College **L**evel **E**xamination **P**rogram. A series of tests available to students to demonstrate proficiency in various college subjects. CLEP exams may be used to earn college credits for select courses.

Classification
Indication of a student's progress toward degree completion based upon the number of hours completed. The categories of undergraduate classification are Freshman, Sophomore, Junior, and Senior.

Class Day
Any day in the academic semester when university classes are scheduled. The number of class days is used for drop dates, resignation dates, and tuition refund schedules. When determining the number of class days (e.g., 12th class day), start counting with the first day of on-campus daytime courses and increase by one each day the university has scheduled classes.

Closed Classes
Classes that have reached the designated maximum enrollment capacity or are not available for on-line registration.

Commencement
An event during which degrees are awarded to graduating students. SHSU holds commencement ceremonies every May, August, and December.

Concurrent Enrollment
Enrollment in courses at two institutions during the same semester.

Core Curriculum
The curriculum in liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of an institution of higher education are required to complete as part of an undergraduate academic degree program. Also referred to as the general education component.

Course Equivalency Guide
A table listing courses from a specific institution and the corresponding courses at SHSU that are considered to have the same content. The course equivalency guide is used to identify courses that may transfer to SHSU.

Course Numbers
A numeric code signifying the anticipated academic level and the credit hour value of a course. At SHSU, course numbers consist of four digits. The first digit in the sequence indicates the course level and suggests the academic year in which the course is typically taken. Lower-level undergraduate courses have a "1" or "2" in the first digit; upper-level undergraduate courses have a "3" or "4" in the first digit; and graduate courses have a "5" or higher in the first digit. The second digit in the sequence indicates the number of semester credit hours.

Course Prefix
Abbreviation identifying the academic discipline of a course (e.g., ACCT signifies Accounting, CRIJ signifies Criminal Justice, and BIOL signifies Biology).

Course Reference Number (CRN)
A unique six-digit number used to identify a specific course offering within a given term. The CRN is used to select courses when registering.

Credit by Examination
An award of academic credit and placement based on examination scores.

Credit Hour (also called Semester Credit Hour)
A unit of measure attached to academic courses, usually reflecting the number of lecture hours per week a course meets in a fall or spring semester.

Curriculum
A combination of courses that compose a particular area of study.

Dean
The highest ranking academic official in a college (e.g., College of Education).

Declaration of Major/Minor Form
The form submitted by an undergraduate student to officially declare a major and/or minor. The form is submitted to the departmental chair of the department housing the student's declared major.

Degree
An academic credential awarded upon the completion of a specific area of study. Universities offer baccalaureate degrees at the undergraduate level and master's and doctoral degrees at the graduate level.

Degree Plan

A specific list of academic requirements that must be completed to earn a degree.

Departmental Chair
An individual responsible for the administrative functions of an academic department. The functions include, but are not limited to, coordination of curriculum planning, faculty course assignments, and evaluation of faculty performance.

Developmental Courses
Courses designed to help student achieve the minimum standards set by the Texas Success Initiative (TSI). Developmental courses are listed with either a "031" or "032" course number and **do not** count toward the hours needed for graduation.

Doctoral Degree
A graduate degree that usually requires two or more years of study beyond the master's degree and progressively more credit hours, varying by discipline.

Double Degree
The concurrent pursuit of two specific majors, each with a different type of degree (e.g., BS with a major in mathematics and a BA with a major in English). The student must be awarded both degrees at the same graduation date.

Double Major
The concurrent pursuit of two specific majors with both resulting in the same type of degree (e.g., BS with majors in Biology and Chemistry). The student must be awarded both majors at the same graduation date.

Drop/Add
A term used to identify the act of deleting/adding courses from/to an established schedule.

Drop Date
The latest date that a student may drop a class without a letter grade being assigned. Dropping a class after this date results in a grade of "F" for the course.

Dual Credit
The receipt of high school and college credit for the same course for qualified high school students enrolled in college-level courses.

Dual Degree
A degree program allowing students to pursue two different degrees concurrently, with select courses satisfying the requirements of both degrees and shortening completion time for the combined programs. Dual degree programs must meet minimum credit hour requirements as specified by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

Elective
A degree plan requirement, not directed to a specific area of academic content, contributing to the credit hour requirements of a degree.

Faculty
Appropriately credentialed individuals responsible for the delivery of course content and academic research and service.

FAFSA (Free Application for Federal Student Aid)
A federal form required from all students seeking need-based financial aid. The FAFSA collects family income and other financial information and is completed and filed by the student or his/her family.

Fees
Non-tuition charges dedicated to cover the cost of specific academic and/or service functions of the university.

Final Exam
An exam, usually comprehensive, designed to measure a student's retention and understanding of the course material. Final exams are scheduled for the last week of the semester and do not necessarily correspond to the regular class meeting time.

Freshman
The classification of a student who has completed 0 to 29 semester credit hours.

Full-Time Undergraduate Student
Full-time is 12 hours for an undergraduate in fall/spring and in summer. 6 hours is considered half-time for the same semesters. 6 hours is only considered full-time for **graduate** students in the summer.

Grade Point Average (GPA)
Numeric average of academic performance on a 0-to-4 point scale. The GPA is the ratio of grade points earned to credit hours attempted.

Graduate Certificate

An academic, non-degree credential from a university awarded upon completion of a set of master's-level courses indicating mastery of a specialized field or subject area. Graduate certificates, requiring between 9 and 29 semester credit hours (SCH), may be offered as stand-alone credentials or embedded within a master's degree.

Grants
A type of financial assistance not requiring repayment.

International Baccalaureate
The International Baccalaureate (IB) Diploma Program is a comprehensive two-year pre-college curriculum that is offered in high schools across the globe that may lead to college credits.

Junior
The classification of a student who has completed 60 to 89 semester credit hours.

Major
A student's concentrated area of study. Most majors consist of a minimum of 30 credit hours within a specific area of study.

Master's Degree
A graduate degree that usually requires two or more years of study beyond the bachelor's degree. The minimum number of credits is 30 hours.

Minor
A student's secondary area of study. Most minors consist of a minimum of 18 credit hours within a specific area of study.

Overload
A course load in excess of 19 hours in a fall or spring semester of 7 hours in a summer session. Overloads must be approved by the student's academic Dean.

Part-Time Undergraduate Student
Undergraduate students enrolled in less than twelve credit hours during a fall or spring semester or less than six credit hours during a summer session. Correspondence courses do not apply toward the credit hour count in determining status.

Prerequisite
An academic requirement (e.g., completion of an earlier sequenced course) that must be satisfied prior to the enrollment in a specific course.

Probation
An academic standing placed upon undergraduate students who fall below a 2.0 SHSU or overall grade point average at the close of any semester or summer school during which one or more semester hours were attempted.

Q-Drop
A drop made after the last date for tuition refunds but before a drop would result in the grade of "F." Students will be allowed no more than five Q-drops during their academic career at Sam Houston State University.

Resignation
Withdrawing from all classes in which the student is enrolled at the university.

Second Degree
The pursuit of a degree at the same level of a degree previously awarded (e.g., baccalaureate).

Section, Course
A number used to distinguish between multiple offerings of the same course. On a student's schedule, the section is the number after the period following the course number (e.g., ENG164.02 indicates section 2 of ENG 164).

Semester
Period of time during which academic courses are offered. SHSU offers fall, spring and summer semesters.

Semester Credit Hour
See Credit Hour.

Senior
The classification of a student who has completed 90 or more semester credit hours.

Sophomore
The classification of a student who has completed 30 to 59 semester credit hours.

Suspension

An academic standing imposed on undergraduate students with a SHSU or overall GPA less than 2.0 for two or more successive semesters. Students on suspension are not allowed to enroll in classes without the permission of the appropriate academic Dean.

Syllabus
A document containing academic and administrative information about a course. The syllabus is provided by the instructor at the beginning of the semester and typically includes a lesson schedule, dates of exams, and quizzes, assigned books and readings, e-mail/phone number and the best time to reach the instructor, and an explanation of how the final grade will be determined.

Transcript, Official
A university approved document providing information about a student's academic performance, including but not limited to, semester by semester listing and grades of courses attempted, credits earned, academic standing, GPA, TSI status, and admission exams.

TSI (Texas Success Initiative)
A Texas law requiring all entering college students to be assessed for college readiness in mathematics, reading and writing unless the student qualifies for an exemption.

Tuition
A per credit hour charge per course. There is a different rate for Texas residents and non-Texas residents.

Undergraduate
A student pursuing a bachelor's degree.

Undergraduate Certificate
An academic, non-degree credential from a university awarded upon completion of a set of baccalaureate-level courses indicating mastery of a specialized field or subject area. Undergraduate certificates, requiring between 12 and 36 semester credit hours (SCH), may be offered as stand-alone credentials or embedded within a baccalaureate degree.

Withdrew Failing (WF)
A mark indicating a student was not performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.

Withdrew Passing (WP)
A mark indicating a student was performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.

GRADUATE AND PROFESSIONAL CATALOG

Accreditations (p. 1385)
Administrative Officers (p. 1387)
Institutional Mission Statement (p. 1388)

If you have a question but do not know to whom an inquiry should be directed, you may call the University Information number, and the inquiry will be routed to the appropriate person or department.

University Information: (936) 294-1111
Toll Free: 1-866-BEARKAT (1-866-232-7528)

Mission Statement

In the Graduate School, we commit ourselves to excellence in every facet of graduate education at Sam Houston State University. We maintain constant advocacy for the students, faculty, and staff who rely on our services. Promoting integrity and equity in all graduate programs, we will dedicate our energy to clear communication, to collaborative problem solving, and to building community between all graduate learners and educators at our university.

The Graduate School

Templeton Building-1st Floor
1003 17th Street
Huntsville, TX 77340
(936) 294-2408
The Graduate School (thegraduateschool@shsu.edu)

The purpose of the catalog is to provide general information about the academic programs of Sam Houston State University to prospective students, current students, faculty, and staff of the University. Included is information concerning the academic calendar, admission and registration procedures, tuition and fees, degree requirements, services available to students, and the faculty and administrative officers of the University.

Subject to Change Notice

The policies, regulations, procedures, and fees in this catalog are subject to change without notice, if necessary, to keep University policies in compliance with State and Federal laws and/or with rules and regulations of the Board of Regents of The Texas State University System.

The University reserves the right to change curricula, rules, fees, and other requirements, of whatever kind, affecting students. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, or faculty member and Sam Houston State University or its Board of Regents.

Course Prefixes and Abbreviations (p. 1787)

List of course abbreviations used throughout this catalog and in many SHSU operations and publications (e.g., transcripts, registration, etc.).

Glossary (p. 1939)

Definitions of terms that are frequently used in the academic environment.

Report a Problem (catalogs@shsu.edu)

If you notice a problem with the catalog, such as a broken link or a typographical error, please, report the problem via email to the catalog editor at catalogs (catalogs@shsu.edu). Be specific and include the exact address of the page if possible.

Accreditations

Sam Houston State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, and doctoral degrees. Sam Houston State University also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Sam Houston State University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website www.sacscoc.org (https://www.sacscoc.org).

College of Arts and Media

The Department of Art's degree programs are accredited by the National Association of Schools of Art and Design (NASAD).

The Department of Dance's degree programs are accredited by the National Association of Schools of Dance (NASD).

The School of Music's undergraduate and graduate degree programs are accredited by the National Association of Schools of Music (NASM).

The Department of Theatre and Musical Theatre's programs are accredited by the National Association of Schools of Theatre (NAST).

College of Business Administration

The College of Business Administration's undergraduate and graduate degree programs are accredited by AACSB International, The Association to Advance Collegiate Schools of Business.

College of Criminal Justice

The Master of Science in Forensic Science is accredited by the Forensic Science Education Programs Accreditation Commission (FEPAC).

College of Education

The College of Education's Educator Preparation Program is accredited by the Council for the Accreditation of Educator Preparation (CAEP). As one of only thirteen universities in Texas with CAEP accreditation, the educator preparation program stands out among the top programs in the nation. The college's educator preparation certification programs are also accredited by the Texas Education Agency.

Many of the college's undergraduate programs are recognized by Specialized Professional Accreditors (SPA), which indicates that the program has taken the extra steps necessary to meet rigorous standards set for the program's specific educational field. The following teacher preparation programs have been nationally recognized by their respective SPA: Elementary Education EC-6 (Association for Childhood Education International); Middle School Education 4-8 (Association for Middle Level Education); Biology 8-12 (National Science Teachers Association); Kinesiology EC-12 (National Association of Sport and Physical Education); Mathematics 8-12 (National Council of Teachers of Mathematics); and Special Education (Council for Exceptional Children).

Many of the college's graduate programs are also recognized by their respective Specialized Professional Accreditors. The following professional educator preparation programs have been nationally recognized by their respective SPA: Library Science (American Association for School Librarians); Educational Diagnostician (Council for Exceptional Children); Principal (Educational Leadership Constituents Council); Superintendent (Educational Leadership Constituents Council); Reading Educator (International Literacy Association); and Instructional Technology (International Society for Technology in Education).

The Clinical Mental Health Counseling, M.A.; School Counseling, M.Ed.; and Counselor Education, Ph.D have been accredited by the Council of Accreditation of Counseling and Related Educational Programs (CACREP).

College of Health Sciences

The Didactic Program in Dietetics (DPD) at the undergraduate level and the Dietetic Internship (DI) Program at the graduate level in the Department of Family and Consumer Sciences are currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995. (312) 899-0040, ext. 5400. Website (https://www.eatright.org/).

The Interior Design Program in the Department of Family and Consumer Sciences is granted accreditation by the Council for Interior Design Accreditation (CIDA) and by the National Association of Schools of Art and Design (NASAD).

The baccalaureate degree program in nursing at Sam Houston State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

The BS in Kinesiology-all-levels Teacher Certification Program-The Physical Education Teacher Education Program was awarded "National Recognition" status by the Society of Health and Physical Educators America (SHAPE America) through the Council for the Accreditation of Educator Preparation (CAEP).

The Master of Science in Athletic Training program accredited by the Commission on Accreditation of Athletic Training Education (CAATE), 2001 K Street NW, 3rd Floor North, Washington DC 20006.

College of Humanities and Social Sciences

The Doctoral Program degree in Clinical Psychology is accredited by the American Psychological Association (APA).

The Specialists degree in School Psychology is approved by the National Association of School Psychologists to ensure high quality school psychology training and services. Any individual interested in reviewing the official document listing the accreditation, approval or licensing of Sam Houston State University, will have access to such material in the Reference Department of the Newton Gresham Library.

College of Osteopathic Medicine

SHSU-COM has been awarded Accreditation with Exceptional Outcomes by the Commission on Osteopathic College Accreditation (COCA). For more information on COCA accreditation or to file a complaint with the accrediting body, please visit Commission on Osteopathic College Accreditation (https://osteopathic.org/accreditation/).

College of Science and Engineering Technology

The American Chemical Society recognizes the Department of Chemistry as having adequate faculty, facilities, library, curriculum, and research for training professional chemists.

The Computing Science Program is accredited by the Computing Accreditation Commission of ABET, https://www.abet.org, under the commission's General Criteria and Program Criteria for Computer Science and Similarly Named Computing Programs.

Sam Houston State University's Bachelor of Science degree in Construction Management has been accredited by the Applied and Natural Science Accreditation Commission of ABET, the global accreditor of college and university programs in applied and natural science, computing, engineering, and engineering technology.

Administrative Officers

Central Administrative Officers

Name	Title
Alisa White, Ph.D.	President
Sumanth Yenduri, Ph.D.	Provost and Senior Vice President for Academic Affairs
Ms. Amanda Withers	Chief Financial Officer & Senior Vice President for Operations
Dannie Moore, Ed.D.	Vice President for Student Affairs
Mr. Matthew Bethea	Vice President for University Advancement
Heather V. Thielemann, Ed.D.	Senior Vice President for Strategic Enrollment & Innovation
Major General (ret.) Dave Glaser	Chief Strategy Officer
Mr. Jeff Harris	Chief Marketing Officer
Mr. Bobby Williams	Director of Athletics
McCartney Johnson, Ed.D.	Deputy to the President

Academic Administrative Officers

Name	Title
Anne Gaillard, Ph.D.	Vice Provost for Academic Affairs
Jason Vest, DMA	Dean, College of Arts and Media
Shar Self, Ph.D.	Dean, College of Business Administration
Phillip M. Lyons, Ph.D.	Dean, College of Criminal Justice
Stacey L. Edmonson, Ed.D.	Dean, College of Education
Ryan Zapalac, Ph.D.	Dean, College of Health Sciences
Chien-pin Li, Ph.D.	Dean, College of Humanities and Social Sciences
Thomas J. Mohr, MS, DO, FACOI, FAOGME	Dean, College of Osteopathic Medicine
Melinda Holt, Ph.D.	Dean, College of Science and Engineering Technology

The Texas State University System

Name	Location
Alan L. Tinsley (Chairman)	Madisonville
Stephen Lee (Vice Chairman)	Beaumont
Dionicio (Don) Flores (Vice Chairman)	El Paso
Charlie Amato	San Antonio
Duke Austin	Houston
Sheila Faske	Rose City
Russell Gordy	Houston
Tom Long	Frisco
William F. Scott	Nederland
Olivia Discon (Student Regent)	Huntsville

Institutional Mission Statement

Mission Statement

Sam Houston State University is a student-centered, community engaged institution whose mission is to offer accessible, quality higher education. The university offers a variety of innovative and flexible degree programs at the undergraduate, graduate, and professional levels focused on career readiness, personal and professional development, and service. SHSU provides integrated academic and student success services designed to support traditional and non-traditional students from diverse backgrounds.

Values

- Student Success and Support
- Academic Excellence
- Service and Community Engagement
- Inclusive Excellence
- Collaborative Environment
- Honor
- Creativity and Innovation

Vision Statement

Sam Houston State University will provide a transformative environment that enables students from diverse backgrounds to become leaders who serve their families, communities, and professions. We aspire to make SHSU both the best value in higher education and the top regional public university in the state of Texas. We will accomplish this through providing high quality, innovative, and flexible academic programs; a commitment to student success, scholarship and creative works; and engagement that solves the most critical challenges facing the world.

Strategic Priorities

- Prioritize student success and student access.
- Embody a culture of excellence.
- Elevate the reputation and visibility of SHSU.
- Expand and elevate our service to the state and beyond.

Academic Policies and Procedures

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Application Process

1. Inquire about your program.
2. Apply at Apply Texas (https://goapplytexas.org/) for graduate applicants or TMDSAS (http://tmdsas.com) for Doctor of Osteopathic Medicine applicants.
3. Upon receipt of the SHSU application received email, create your SHSU Self Service Center account (https://shsu.edu/checkstatus/) or COM Admissions Portal (https://med.shsu.edu).[1]
4. Submit required application materials by the posted deadline for your program, as well as, monitor application status and receipt of materials via your SHSU Self Service Center account (https://shsu.edu/checkstatus/) or COM Admissions Portal (https://med.shsu.edu/Security/Login.aspx?ReturnUrl=%2f).[1]
5. Admission decisions are communicated by email and on your SHSU Self Service Center account (https://shsu.edu/checkstatus/) or COM Admissions Portal (https://med.shsu.edu).[1]
6. If you have questions regarding your graduate application or your Self Service Center account, please, contact graduate@shsu.edu or (936) 294-1971. If you have questions regarding your medical school program application or your COM Admissions Portal[1], please contact COM Admissions (enrollcom@shsu.edu) or (936) 202-5201.

[1] College of Osteopathic Medicine Admissions Portal

Application Materials

Application materials include an application, non-refundable application fee, official transcript(s), and official entrance exam scores if applicable. Additional supporting materials vary by program. For the most current and program-specific information, please, visit the Degrees Offered web page. (https://www.shsu.edu/academics/degrees.html?degTyp=bach)Application materials include:

- **Application for Admission and Application Fee**
  An application for your desired graduate program must be on file with the Office of Admissions, including a non-refundable application fee for every prospective degree program. To provide adequate time to process application materials, all materials must be received before August 1 for fall admission, December 15 for spring admission, and May 15 for summer admission. Program specific deadlines could be earlier than University deadlines. International students should allow at least 60 days prior to the start of the semester and deadlines are one month earlier. College of Medicine applicants must submit a TMDSAS (http://tmdsas.com) application and an SHSU-COM (https://www.shsu.edu/academics/osteopathic-medicine/prospective-students/admissions.html) Supplemental Application by the deadlines. Application requirements and deadlines vary by program so, please, reference the listing for your program and contact Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html) if you have questions.
- **Official transcript of the baccalaureate degree-granting institution showing the date of the degree conferral**
  The baccalaureate degree-granting institution must be a college and/or university accredited by an agency recognized by the Texas Higher Education Coordinating Board. Some programs require all transcripts showing any college-level work attempted. Students applying prior to completing their baccalaureate degree should submit the most up-to-date transcript during the admissions process. A final transcript MUST be submitted upon completing the baccalaureate program. SHSU students are not required to submit an SHSU transcript for admission purposes. Official transcripts are sent electronically to graduate@shsu.edu or by mail directly to the Office of Admissions - Graduate Programs, SHSU, Box 2478, Huntsville, TX 77341-2478.
- **Official scores of the entrance exam required by the respective college and/or department/school**
  The Graduate Record Exam (GRE) general test may be required for some graduate programs or may be requested if your baccalaureate degree GPA is below the minimum threshold. Students seeking the MBA, the MS in Accounting, or the MS in Project Management may be required to submit the Graduate Management Aptitude Test (GMAT). Applicants seeking the Doctor of Osteopathic Medicine will be required to submit the Medical College Admissions Test (MCAT). Some programs do not require an entrance exam.
- **Submit other program-specific admission materials.** Some programs require additional information such as letters of recommendation, essays, and documentation of experience.

Admission Examinations

The following examinations are given at various centers throughout the United States and in other countries.

- **Graduate Record Examination (GRE).** This test may be required for admission to some programs of graduate study at Sam Houston State University. Registration for the examination may be scheduled by calling 1-800-GRE-CALL or by visiting the GRE website (https://www.ets.org/gre/). The GRE institution code for SHSU is 6643.
- **Graduate Management Admissions Test (GMAT).** This test may be required for admission to graduate study in the College of Business Administration at Sam Houston State University. Registration for the test may be arranged by calling 1-800-GMAT-NOW (1-800-462-8669) or by visiting the GMAT website (https://www.mba.com/). Sam Houston State University is a testing site for the GMAT.
- **Medical College Admissions Test (MCAT).** The MCAT is required for admission to the College of Osteopathic Medicine program at Sam Houston State University. Registration for the examination may be scheduled by visiting the AAMC website (https://students-residents.aamc.org/applying-medical-school/taking-mcat-exam/register-mcat-exam/).

- **Miller Analogies Test (MAT).** This test may be accepted as an admission test by some programs of study at Sam Houston State University. The MAT is administered by the Testing Center, and individuals may call for an appointment, (936) 294-1025. There is a fee for administration and scoring services.

English Proficiency

- **Duolingo.** The TOEFL, IELTS,or Duolingo is required of non-native speakers of English. Duolingo is internationally available, and there is a fee for administration and scoring services. Registration for the exam may be scheduled by visiting the Duolingo website (https://englishtest.duolingo.com/).
- **International English Language Testing System (IELTS).** The TOEFL, IELTS, or Duolingo is required of non-native speakers of English. The IELTS is internationally available, and there is a fee for administration and scoring services. Registration for the exam may be scheduled by visiting the IELTS website (https://www.ielts.org/).
- **Test of English as a Foreign Language (TOEFL).** The TOEFL, IELTS, or Duolingo is required of non-native speakers of English. The TOEFL is administered several times per year, and there is a fee for administration and scoring services. For further information, contact the English Language Institute, Sam Houston State University, Box 2030, Huntsville, Texas 77341; TOEFL, P.O. Box 6155, Princeton, NJ 0845-6155; or visit the TOEFL website (https://www.toeflgoanywhere.org/).

International Students

Additional Application Requirements*

- Official evaluation of baccalaureate transcript(s) from a NACES accredited evaluation company or SHSU internal evaluation (if applicable).
- Proof of financial support (Please visit International Students (https://www.shsu.edu/admissions/international/) for further details.)
- Prospective international students must demonstrate the ability to speak, write, and understand the English language. Prospective students whose native language is not English must take the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). **All** applicants for admission from non-English-speaking countries must present a score of at least 79 on the TOEFL or a score of 6.5 on the IELTS. Test score waivers are considered for those who completed an undergraduate program or previous degree coursework where English was the language of instruction. The language of instruction is determined by reviewing submitted transcripts for official confirmation of the language of instruction, or if coursework was completed in a country on the list of official English language nations (https://www.shsu.edu/admissions/international/documents/Official%20English%20Language%20Nations.pdf). Upon receipt of these transcripts, the Office of Admissions will determine waiver eligibility.

For additional admission requirements, international students should contact:

Global Engagement Center (https://www.shsu.edu/dept/international-programs/)
Sam Houston State University
Box 2150
Huntsville TX 77341-2150

*The College of Osteopathic Medicine will only review and consider for admissions applicants who are U.S. citizens or legal Permanent Residents of the U.S. Additional information can be found on the TMDSAS (http://tmdsas.com) website under residency.

Additional VISA Type Considerations

Students in the following VISA categories at the time of application **may** qualify for conditional admissions, probationary admissions, preparatory admissions, non-degree admissions, or graduate transient admissions: A-1, A-2, A-3, B-2, E-1, E-2, F-I, F-2, VWB, VWT, G-1, G-2, G-3, G-4, G-5. H-1A, H-1B, H-2A, H-2B, H-3, H-4, I, J-1, J-2, L-1, L-2, M-1, M-2, NATO 1-7, O-1, O-2, O-3, P-1, P-2, P-3, P-4, Q, R-1, R-2, TN, and TD.

Admission Standards

For Graduate Admission, SHSU requires an undergraduate GPA from the baccalaureate-granting institution of 2.5 (on a 4.0 point scale) or a GPA of at least 2.8 from the last 60 hours of courses taken at the baccalaureate degree-granting institution. Only the hours received at the baccalaureate degree-granting institution may be used to calculate for the 2.8 GPA requirement admission option. The minimum GPA may be waived for programs in certain circumstances, please contact the program department/school for additional information.

Admission to graduate studies at Sam Houston State University and any of its sponsored programs is open to qualified individuals without regard to race, color, national origin, religion, gender, disability, or age.

Admission Types

A student applying for admission to graduate studies at SHSU may be considered for six types of admission. Details of the possible admission types follow. **The final admission decision rests with the respective academic dean.**

Regular Admission

Regular admission may be granted to a degree-seeking student who meets all of the University and program-specific admission requirements. Meeting stated minimum admission requirements does not constitute automatic admission to a graduate program at Sam Houston State University. Any inquiries regarding program-specific admission requirements should be directed to the graduate advisor (access advisors at Degrees Offered (http://www.shsu.edu/academics/degrees.html)) or the dean of the appropriate college in which the program is housed. Regular admission, pending degree conferral, may be granted to a degree-seeking student who has not yet graduated with their baccalaureate degree. This will allow an admission decision to be made and the student to enroll in classes pending receipt of successful degree conferral. For students admitted pending degree conferral or lacking official transcripts (i.e., admission decision made with unofficial transcripts), the official transcript of the degree-granting institution(s) showing the date of the degree conferral must be submitted prior to the registration deadline of the semester enrolled. Failure to submit such official transcripts by the registration deadline may result in revocation of admission status.

Conditional Admission

Conditional admission may be granted, at the discretion of the appropriate academic dean, to a degree-seeking student who has not yet submitted ALL of the required admission materials to allow an admission decision to be made and is being allowed to enroll in classes pending receipt of the missing material(s). Conditional admission is valid for **ONE SEMESTER ONLY**. A subsequent admission decision will be made upon receipt of the missing admission material. **Conditional admission does NOT guarantee regular admission upon receipt of the missing material**, regardless of the student's performance in classes taken during the one semester of conditional admission. Some programs do not grant conditional admission. At the discretion of the appropriate academic dean, a conditionally admitted student may be limited to fewer than the normal maximum semester load of 12 graduate credit hours. International students may not qualify for conditional admission, with the exception of international students transferring directly from U.S. institutions. For more information, refer to Additional Visa Type Considerations (p. 1391). Conditional admission does not qualify for federal financial aid.

Probationary Admission

Probationary admission may be granted, at the discretion of the appropriate academic dean, to a degree-seeking student who has submitted all of the required admission materials BUT does not qualify for regular admission. Probationary admission allows a student to enroll in courses to demonstrate the ability to succeed at the graduate level. A student may complete a maximum of 12 graduate semester credit hours with probationary admission. A student with probationary status may be limited to fewer than 12 graduate credit hours by the appropriate academic dean. To petition for regular admission, a student must earn a grade of "B" or better in each course completed under probationary admission. A program may set a higher standard. The final decision rests with the appropriate academic dean. A maximum of 12 credit hours completed in probationary status may be applied to a graduate program, but the department/school concerned may choose not to accept some credit hours taken prior to regular admission. **Probationary admission does NOT guarantee regular admission upon completion of the requisite coursework.** International students may not be eligible for probationary admission. For more information, refer to Additional Visa Type Considerations (p. 1391). Probationary admission does not qualify for federal financial aid.

Preparatory Admission

Preparatory admission may be granted, at the discretion of the appropriate academic dean, to a degree-seeking student who has NOT qualified for regular admission AND needs to complete one or more prerequisite (stem) courses. A student granted preparatory admission may be limited to a specified number of credit hours and be subject to a stringent GPA requirement in the prerequisite (stem) courses. **Preparatory admission does NOT guarantee regular admission upon completion of the stem courses**, regardless of the student's performance in the preparatory (stem) courses taken. International students may not be eligible for preparatory admission. For more information, refer to Additional Visa Type Considerations (p. 1391). Preparatory admission does not qualify for federal financial aid.

Non-Degree Admission

Non-degree admission may be granted to a student who holds a baccalaureate degree or higher and does not intend to pursue a graduate degree at SHSU, but instead wishes to take courses for professional advancement, licensure, graduate certificate, certification, or self-edification purposes. Students may enroll in undergraduate or graduate-level courses. An applicant for non-degree admission must submit the following documents to the Office of Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html): the graduate application for admission, a non-refundable application fee, and a transcript from the school that awarded the baccalaureate degree. A non-degree student who later applies for regular admission to seek a graduate degree may apply a maximum of 12 credit hours of coursework taken in non-degree status toward a graduate program at the discretion of the appropriate academic Dean. Some graduate certificate programs may require additional information such as letters of recommendation, essays, and documentation of experience.

Generally, international students possessing an F-1 student visa are not eligible for non-degree admission. However, an F-1 student may enroll in a graduate-level certificate program. If currently enrolled at a U.S. institution in F-1 status, non-degree admission may be permitted if the student is pursuing a course that is not offered at their current institution. Both Sam Houston State University and the current F-1 institution must be in approval. Please, contact the Global Engagement Center (https://www.shsu.edu/dept/international-programs/) for more details. For more information on additional visa types, refer to Additional Visa Type Considerations (p. 1391).

Non-degree admission does not qualify for federal financial aid.

Graduate Transient Admission

Transient admission may be granted to a student who is accepted in good standing at a college and/or university recognized by the Texas Higher Education Coordinating Board and who wishes to enroll for one semester at Sam Houston State University. An applicant requesting this status must submit the following to the Office of Admissions: the graduate application for admission, a nonrefundable application fee, and certification of graduate standing in a college and/or university recognized by the Texas Higher Education Coordinating Board. Some departments/schools may require additional information for transient admission; therefore, applicants should contact the appropriate academic department/school. A student admitted with this admission type who later wishes to seek a degree at Sam Houston State University must submit an application for graduate studies. A maximum of 12 credit hours taken as a graduate transient may be applied to a graduate degree program at the discretion of the appropriate academic dean. For more information for international students, refer to Additional Visa Type Considerations (p. 1391).

Admission Classifications

A student admitted into a graduate or post-baccalaureate program at SHSU may be considered for three distinct classifications. Details of the possible classifications follow.

Post-Baccalaureate

Post-baccalaureate classification is assigned to a student possessing a baccalaureate degree who has not been regularly or conditionally admitted to a graduate program (master's or doctoral) at SHSU. A student who is classified as a post-baccalaureate is typically:

- taking undergraduate classes to raise an undergraduate GPA,
- seeking certification or a certificate credential at the graduate level but not seeking a degree,
- taking prerequisite courses for a degree program and does not yet meet the admission requirements for the degree program, or
- taking courses for self-edification.

Master's

Master's classification is assigned to a degree-seeking student possessing a baccalaureate degree and who has been admitted to an approved master's degree program at SHSU. Master's classification is also granted to a degree-seeking student admitted to a doctoral program who has not yet earned the required master's degree or 30 hours toward the doctorate degree.

Doctoral

Doctoral classification is assigned to a degree-seeking student who has been admitted to an approved doctoral degree program at SHSU and has completed a master's degree (recognized as the equivalent of one year's full-time work) toward the doctoral degree the student is seeking or at least 30 graduate hours of work toward the proposed doctorate degree.

Professional

Professional classification is assigned to a degree-seeking student who has been admitted to an approved professional program at SHSU and has completed the pre-requisites for entry into the degree program the student is seeking.

Subsequent Application

A new application for admission must be submitted if the student fails to attend for one calendar year or seeks admission into a different degree program.

For more information, please call the Office of Admissions at (936) 294-1971 or visit Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html) online.

Subsequent Master's Degree

(Refer to Academic Policy Statement 801215 (https://www.shsu.edu/dept/academic-affairs/documents/aps/801215%20Subsequent%20Masters%20Degree.pdf))

A student can only be enrolled, seeking one graduate degree at a time. If a student wishes to pursue more than one master's degree at Sam Houston State University, he or she must complete one degree before beginning another. A student may seek a second master's degree at Sam Houston State University, provided that the field of study differs from the field of study for the first master's degree.

Upon the written recommendation of the appropriate departmental/school chair(s) and academic dean, the following maximum number of credit hours may be applied to the second master's degree:

Departments	Programs
Hours in Second Master's Degree Program	**Maximum Semester Credit Hours Applied**
30-35	6
36-44	9

45-59	12
60 or more	15

Personal Standards

The personal standards of conduct expected of students who enroll at Sam Houston State University are provided in the *Student Guidelines*. Additional standards for professional behavior are expected and assessed in some graduate programs. The University reserves the right to refuse acceptance to prospective or former students who have criminal records, including conviction of a felony, offenses involving moral turpitude, or other serious offenses.

Registration

- Graduate Advisement (p. 1395)
- Registration (p. 1395)
- Graduate Courses (p. 1395)
- Course Load (p. 1395)
- Class Schedule Changes (p. 1396)
- Correct Addressees (p. 1396)
- Name Change (p. 1396)

Graduate Advisement

Before the initial registration, the student should consult with the appropriate graduate advisor. Academic advisement is encouraged prior to each registration period. All students should confer with graduate advisors on a regular basis, monitor their own academic progress, and review the degree plan on a continuous basis. The graduate advisors can be located by accessing the desired degree program at The Graduate and Professional School (https://www.shsu.edu/dept/graduate-studies/graduate-programs.html). (https://www.shsu.edu/dept/graduate-studies/)

Registration

Sam Houston State University has approval from the Texas Higher Education Coordinating Board to offer various degree programs at The Woodlands Center in The Woodlands, Texas. (Registration into courses at The Woodlands Center will incur additional fees.) During scheduled periods of registration, students may register online by selecting the MySam link under Campus Tools on the SHSU homepage (https://www.shsu.edu/) and then the Registration tab. Students will need their User ID and password to access MySam. For further information, please visit the Registrar's website (https://www.shsu.edu/dept/registrar/students/registration/).

International Students:

Immediately upon arrival on campus, international students should contact the Global Engagement Center (https://www.shsu.edu/dept/global-engagement/) to ensure all admission and immigration documents are in order. Visit the Global Engagement Center for check-in requirements. (https://www.shsu.edu/dept/global-engagement/international-students-and-scholars/check-in/)

SHSU International Students must obtain health insurance coverage by either applying for a waiver and presenting proof of other insurance coverage that meets applicable federal or state requirements for minimum coverage and benefits or by accepting the university-offered compliant health insurance policy. International student health insurance will be coordinated through the Global Engagement Center (https://www.shsu.edu/dept/global-engagement/).

Osteopathic Medical Students:

Students associated with the College of Osteopathic Medicine (p. 1713) will be registered for classes by Registrar staff. Certain tasks may be required of osteopathic medicine students prior to registration. Students will be contacted with those tasks each semester.

Graduate Courses

A graduate course is an advanced course requiring critical analysis and study. Typically, courses with numbers of 5000 or 6000 level are master's level courses, and 7000 level or higher are doctoral/medical level courses.

Graduate and undergraduate courses with similar content and background requirements may be offered as stacked sections to provide a greater range of academic course offerings. Stacked sections are defined as course sections at different levels scheduled as combined classes taught simultaneously by the same faculty member with graduate faculty status. Most commonly, it will be a 4000 level section stacked with a 5000 level section. The course syllabus must clearly state the additional effort required for higher level credit. Please contact the program department for more information.

Some graduate programs allow students to take a limited number of approved 4000 level courses for graduate credit. To receive graduate credit for a 4000 level course, the student must receive prior approval from the department chair and the academic dean and complete additional requirements as outlined by the professor. Please see the specific degree programs within this catalog for more details on taking 4000 level courses for graduate credit.

Course Load

Normal Load - The load for a full-time graduate student is nine to twelve credit hours per fall or spring semester and six credit hours in the summer. Students enrolled in master's and doctoral degree programs should enroll in a minimum of nine graduate credit hours in both the fall and spring semesters and six credit hours in the summer to be considered full-time graduate students. Osteopathic medical students are considered full-time and are enrolled in a standard array of courses each term as designated by the approved curriculum of the College of Osteopathic Medicine.

Master's students desiring to enroll in more than twelve graduate credit hours and doctoral students desiring to enroll in more than nine graduate credit hours in any one semester must obtain approval from the dean of the college in which they are enrolled.

It is important to note that the University requirements for full-time status and the requirements of various financial aid programs may differ. It is recommended that students consult with the University's Financial Aid Office to determine how assistantships and fellowships may impact financial aid.

Course Load for Graduate Assistants

Graduate students employed by the University at least half-time as graduate assistants, research assistants, or teaching assistants should enroll in a minimum of six graduate credit hours per semester to be considered full-time graduate students. The maximum course load for graduate assistants on half-time employment is nine credit hours per fall or spring semester or six credit hours during the summer. Graduate assistants on less than a half-time assistantship may have the maximum course load authorization increased proportionately by the appropriate department/school chair. For more information on the employment of graduate assistants, refer to Academic Policy Statement 890303. (https://www.shsu.edu/dept/academic-affairs/documents/aps/890303%20Employment%20of%20Graduate%20Assistants.pdf)

Class Schedule Changes

What should students consider when adding or dropping courses?

- Adding or dropping courses can impact financial aid. Students receiving financial aid and/or scholarships are encouraged to visit with a financial aid representative prior to adding or dropping courses.
- Adding or dropping courses can impact time to completion. Students should meet with their graduate advisor to discuss potential impacts.
- Beginning with the first class day of each term, added courses will result in tuition and fee charges to be paid by 4:00 pm on the date the course(s) are added.
- International students must make changes through the Global Engagement Center. (https://www.shsu.edu/dept/global-engagement/)

When can students change their schedules?

For registration times, please refer to Registration Dates (https://www.shsu.edu/dept/registrar/students/registration/registration-open-close-dates.html) and the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).

Osteopathic Medical Students:

Students associated with the College of Osteopathic Medicine will be registered in course blocks required for promotion to the next semester. Osteopathic medical students are not permitted to drop individual courses that are a part of these blocks.

Correct Addresses

It is necessary to have a correct residency address on file with the University. Students who change addresses after completing registration should immediately update their addresses by logging in to MySam. (Campus Resources -> Banner Self-Service -> Personal Information -> Update Addresses and Phones)

Official University e-mail correspondence will be sent to the assigned SHSU e-mail address. The University assumes no obligation for failure of a student to receive communications.

International students must contact the Global Engagement Center. (https://www.shsu.edu/dept/global-engagement/)

Name Change

Appropriate documentation substantiating a legal name change for a student must be submitted to the Registrar's Office. All transcripts are issued under the student's legal name as recorded on the student's academic record. The Request for Change of Name form can be found on the Registrar's website (https://www.shsu.edu/dept/registrar/forms-and-documents/forms-and-documents.html#faculty) under Student Resources –> Forms and Documents.

Degree Requirements & Academic Guidelines

- Graduate Degree Requirements (p. 1397)
- Academic Expectations and Guidelines (p. 1399)

Graduate programs are typically regarded as either research or professional oriented programs. Research programs have a major research component. At the master's level, the research component may be included in a series of courses, a research product, and/or a thesis. At the doctoral level, the research product is a dissertation. Professional programs at the master's level may include an internship and/or a practicum, in lieu of a research product.

Graduate studies tend to be more focused, provide greater depth of study within the chosen field, foster independent learning, and promote knowledge of the literature. All of the graduate programs at Sam Houston State University require an assessment of knowledge retention toward the end of the academic program. Further assessment information can be found under Comprehensive Requirements (p. 1398).

Regardless of the type of program, the academic expectations placed on graduate students far exceed those experienced at the undergraduate level. To maintain academic good standing at Sam Houston State University, a graduate student must maintain an overall grade point average of at least 3.0 on all graduate coursework attempted. Students associated with the College of Osteopathic Medicine will adhere to an academic standings policy as outlined in their student handbook. See Scholastic Expectations (p. 1401) for further details.

Graduate Degree Requirements

- Academic Procedures (p. 1397)
- Degree Plan (p. 1398)
- Comprehensive Examination (p. 1398)
- Enrollment in Thesis or Dissertation Courses (p. 1398)
- Master's Thesis/Doctoral Dissertation (p. 1398)
- Graduation (p. 1399)

Academic Procedures

SUMMARY OF THE MAJOR STEPS REQUIRED BY THE GRADUATE & PROFESSIONAL SCHOOL IN FULFILLING REQUIREMENTS FOR A GRADUATE DEGREE

Procedure	Time
1. Become familiar with general regulations and appropriate degree section of Graduate and Professional Catalog	Before registration
2. Meet with graduate advisor to plan course of study, including any attempted certificates	Before initial registration
3. Meet candidacy requirements	Per program requirements
4. Conduct annual review with advisor	After each year in program
5. If Thesis or Dissertation is required: a. Establish Advisory Committee b. Submit thesis/dissertation proposal c. Defend thesis/dissertation proposal d. Defend final thesis/dissertation e. Submit thesis/dissertation to The Graduate & Professional School for review	Per program requirements See Academic Calendar linked below table
6. Apply for degree and/or graduate certificate	See Academic Calendar
7. Meet comprehensive requirements	During semester of anticipated graduation

Academic Calendar (http://www.shsu.edu/~reg_www/academic_calendar/)

Notes:

1. Each student is responsible for contacting their graduate advisor for the specific program requirement deadlines. A student is required to complete masters level graduate work within a six-year period, measured from the date of initial enrollment for graduate credit in a particular degree program and within an eight-year period for doctoral level graduate work.

2. Students must be enrolled in at least one course (one credit hour or more) in both the semester of graduation and the semester in which the comprehensive requirements are met. Completing a course for which a grade of IP was given in a previous semester does not constitute enrollment.
3. Students are responsible for appropriate application to degree for diplomas and/or certificates.

Degree Plan

A degree plan details the curriculum for the specific academic program and is developed for each graduate student. All courses on the approved degree plan must be completed with a satisfactory grade to meet the requirements for the degree. Changes in an approved degree plan may be made by petition to the graduate advisor and approved by the appropriate academic dean.

A student is required to complete masters level graduate work within a six-year period, measured from the date of initial enrollment for graduate credit in a particular degree program and within an eight-year period for doctoral level graduate work. A student associated with the College of Osteopathic Medicine is required to complete the curriculum within a six-year period. The period of time a student is on an approved leave of absence will be counted as time accumulated toward the six-year or eight-year deadline for completion of the degree. Any extension of the six-year or eight-year deadline must be approved in writing by the appropriate academic dean and the Dean of The Graduate & Professional School.

Comprehensive Requirements

Comprehensive requirements are an important measure of skills and knowledge acquired throughout the program of study. All master's degree and doctoral degree candidates must demonstrate the skills and knowledge acquired through their program by passing an integrative comprehensive examination before completing their degree plan. The major department/school will establish the form of the comprehensive examination (e.g. timed exam, research presentation, thesis defense, capstone course, portfolio submission, performance, etc.) and whether it is written, oral, or a combination of the two. Graduate candidates must check with their program's graduate advisor and/or department/school to determine the comprehensive examination procedures for their program.

As appropriate, the major department/school will organize a committee for the administration of exams. A grade of "high pass," "pass," or "fail" for each exam must be filed with the appropriate academic dean. Should a student fail one or more examinations, a re-examination shall be permitted per department/school or college guidelines, as appropriate. A third examination may be permitted only with the approval of the appropriate academic dean and the department/school. Students should consult the major department/school for specific guidelines regarding comprehensive examinations. Students must be enrolled at SHSU in the semester in which the comprehensive exams are administered.

Enrollment in Thesis or Dissertation Courses

(Refer to Academic Policy Statement 930129 (https://www.shsu.edu/dept/academic-affairs/documents/policies/930129%20Graduate%20Degree%20Enrollment%20and%20Completion%20Requirements.pdf) - Graduate Degree Enrollment and Completion Requirements)

A graduate student at Sam Houston State University writing a thesis or dissertation must enroll in the appropriate thesis or dissertation courses. Typically, a master's student is required to take at least six hours of thesis courses. Depending on the specific program, a doctoral student is required to take a minimum of either nine or twelve hours of dissertation courses. Once a student enrolls in a thesis or dissertation course, the student must continuously enroll in such a course every fall, spring, and summer semester until the signed thesis/dissertation route sheet is received by the Office of the Registrar. Students must be enrolled in at least one course (one credit hour or more) in the semester of graduation. Completing a course for which a grade of IP was given in a previous semester does not constitute enrollment.

A student who is unable to work on the thesis or dissertation for a period of time may present to the appropriate academic dean a written request for a leave of absence of up to one year. The dean's approval of such a request must be in writing. A student granted a leave of absence may not be enrolled in any coursework during this period. A student on a leave of absence will lose access to University services. Students returning from leave of absence should contact program advisors immediately to seek guidance for enrollment procedures.

Master's Thesis/Doctoral Dissertation

Thesis/Dissertation Committee

A thesis/dissertation committee will be formed prior to enrollment in the first thesis/dissertation course. The committee must be composed of a chair and at least two additional members, all of whom have appropriate graduate faculty status. With the approval of the department/school chair, academic dean, and Dean of The Graduate & Professional School the committee may include one member who is not employed by SHSU, as per Academic Policy Statement 950601 (https://www.shsu.edu/dept/academic-affairs/documents/aps/950601%20Members%20Not%20Employed%20Thesis%20Dissertation.pdf). Selection of the chair depends on student preference, faculty availability, and expertise. After a faculty member agrees to serve as chair, the student will select the other committee members with guidance from the chair. The committee must then be approved by the chair of the major department/school and the appropriate academic dean. Any change in the composition of the thesis or dissertation committee will be approved in the same manner.

Prospectus

In consultation with the thesis/dissertation chair, the student will select a subject of investigation and determine the availability of the required sources, facilities, materials, and equipment for the research and the writing of the thesis/dissertation. The student will prepare a prospectus which will specify the topic, detail the purpose of the proposed investigation, describe the proposed method(s) of investigation, indicate the relationship

of study to relevant research and findings of scholars in the student's area of concentration, and provide a commentary on source materials and/or facilities available for the successful completion of the research.

The prospectus shall be submitted to the thesis/dissertation committee following the timelines outlined by the department/school or college policies. Upon committee approval, the signed prospectus is submitted to the appropriate academic dean for final approval and to The Graduate & Professional School for notification purposes by using the Thesis and Dissertation Initiation Sheet (https://www.shsu.edu/dept/graduate-studies/theses-and-dissertations.html). Any subsequent changes in topic or the proposed method of investigation must be approved in writing by the committee and submitted for approval to the appropriate academic dean.

Preparation

To facilitate the preparation of the thesis/dissertation, the student should refer to the Thesis and Dissertation Resources (https://www.shsu.edu/dept/graduate-studies/theses-and-dissertations.html) provided by The Graduate & Professional School.

Procedure

Candidates should be in regular contact with committee members throughout the thesis/dissertation process. Candidates should allow committee members ample time to review draft versions of the thesis/dissertation. The candidate should submit the completed thesis/dissertation to the thesis/dissertation committee at least two weeks prior to the scheduled defense. The following steps must be completed, most in the graduating semester.

1. The candidate shall submit a draft of the thesis/dissertation to the Thesis/Dissertation Specialist for format and style review. The last day to submit the draft can be found in the Academic Calendar (http://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).
2. The chair of the committee or the graduate advisor establishes a time and location for administering a verbal defense of the thesis/dissertation. The defense must be held at least six weeks prior to graduation. Attendance at the defense is open to the entire university community.
3. The thesis/dissertation chair will submit a signed *Report of the Outcome of the Thesis/Dissertation Defense* to the appropriate academic dean.
4. Upon successful completion of the defense, the candidate should begin the routing of the Electronic Route Sheet. (http://www.shsu.edu/dept/graduate-studies/theses-and-dissertations.html) This form will be automatically routed to the thesis/dissertation committee chair and the appropriate academic dean; the Thesis/Dissertation Specialist; The Graduate & Professional School; and the Office of the Registrar.
5. Upon approval by the committee, the final (approved) version of the thesis/dissertation should be submitted to the Thesis/Dissertation Specialist by the candidate for final review prior to publication. The last date for submission can be found in the Academic Calendar (http://www.shsu.edu/dept/registrar/calendars/academic-calendar.html).
6. SHSU publishes theses and dissertations electronically through Vireo (https://shsu-etd.tdl.org/) and ProQuest (https://about.proquest.com/). In certain cases, however, SHSU will allow for an Embargo (https://www.shsu.edu/dept/graduate-studies/theses-and-dissertations.html) to be placed on a candidate's research. An embargo allows a thesis/dissertation to be withheld from being published for a limited time or permanently in SHSU's Institutional Repository and ProQuest. Printing and binding costs for physical reproductions of the thesis/dissertation are the responsibility of the candidate. The original copy will remain in the library collection.

Graduation

Application for a Degree

For fall and spring graduates, a formal application and payment of the degree/diploma fee must be made in the Office of the Registrar on or before the 12th class day of the semester in which the degree is to be conferred. Summer graduates will be required to file their graduation application and pay the degree/diploma fee by the 4th class day of the first summer session in which the degree is to be conferred. The specific deadline dates to apply to graduate each term can be found in the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html). A student filing a degree application after the published deadline will be assessed a late fee. A student who is completing the last term of coursework at an institution other than SHSU must provide The Graduate & Professional School with an official transcript of this coursework no later than one day prior to the graduation date (See Transfer of Credit (p. 1402)). Further details regarding the graduation application process and graduation ceremony information may be found through the Registrar's Graduation (https://www.shsu.edu/dept/registrar/graduation/) site, including application fees.

Application for a Graduate Certificate

All graduate students who complete a graduate certificate issued by SHSU must submit an application for graduation with the Office of the Registrar (https://www.shsu.edu/dept/registrar/). This process should take place on or before the 12th class day during the fall or spring semester. Summer graduates will be required to complete the process on or before the 4th class day. Graduate certificates may be awarded at the completion of the required graduate certificate coursework, except for graduate certificates that require degree completion per the academic program. Here is a complete list of graduate certificates (https://www.shsu.edu/academics/degrees.html?degTyp=mast) offered at SHSU.

Please note that certifications issued by the Texas Education Agency (TEA) will be distributed by the TEA not by SHSU.

Academic Expectations and Guidelines

- Grading System (p. 1400)
- Academic Honesty (p. 1400)
- Scholastic Expectations (p. 1401)
- Graduate Certificates (p. 1400)
- Academic Probation and Suspension (p. 1401)

- Resignations (p. 1401)
- Transcripts (p. 1402)
- Transfer of Credit (p. 1402)
- University Academic Policy Manual and Student Guidelines (p. 1403)

Grading System

Four grades are given in graduate courses at the University:

Grade	Denotation
Grade	**Denotation**
A	Academic Excellence
B	Acceptable Performance
C	Passing, yet Insufficient Performance
F	Failure

- The mark "IP" denotes "in progress" and is given in thesis/dissertation and other courses which cannot be completed within one semester.
- The mark "CR" denotes "credit."
- The mark of "W" denotes "withdrew" and is given for resignations.
- The mark "X" denotes "incomplete." If the student meets the prescribed requirements of the course before the end of the next long academic semester (fall or spring; the summer term is not considered a long semester for X grade submissions) after the "X" is given, the student will receive the grade earned; otherwise, the mark "X" will be automatically changed to an "F."
- The mark of "Q" is assigned to courses dropped from the thirteenth class day for a fall or spring semester, or from the fifth class day for a summer session, through the last class day but prior to any final exams being taken or course completion. Courses with the mark of "Q" will not be counted as courses attempted and will not be included in determining grade point averages.
- Students associated with the College of Osteopathic Medicine are subject to a grading policy found in the College of Osteopathic Medicine Student Handbook.

Academic Honesty

The Graduate Faculty of Sam Houston State University expects students to conduct academic work with integrity and honesty. Acts of academic dishonesty will not be tolerated and can result in the failure of a course and dismissal from the University.

Academic dishonesty includes, but is not limited to, cheating on a test, plagiarism, collusion (the unauthorized collaboration with another person in preparing work offered for credit), the abuse of resource materials, and misrepresentation of credentials or accomplishments.

Sam Houston State University's policy on academic honesty and appeal procedures can be found in the Student Guidelines *(*http://www.shsu.edu/students/guide/*)*, distributed by the Division of Student Affairs. Students should check with their academic colleges and departments/schools for potentially stricter policies than those listed in the Graduate and Professional Catalog. Students associated with the College of Osteopathic Medicine must adhere to additional policies that can be found in the College of Osteopathic Medicine Student Handbook.

Graduate Certificates

Graduate certificates issued by Sam Houston State University must follow all policies for graduate level work, including, but not limited to, admissions, scholastic expectations, degree plan requirements, and graduation. Students may pursue a graduate certificate with or without simultaneous enrollment in a graduate degree program.

Students seeking a graduate certificate with simultaneous enrollment in a graduate degree program.

For information on transfer of credit for graduate courses completed at other accredited colleges and universities, see Academic Policy Statement 801007 (http://catalog.shsu.edu/graduate-and-professional/academic-policies-procedures/degree-requirements-academic-guidelines/#transfer-credit).

The maximum number of hours that may count as shared credit between multiple certificates and/or with a graduate degree program taken simultaneously is at the discretion of the academic dean and the Dean of The Graduate & Professional School.

Students seeking a graduate certificate without simultaneous enrollment in a graduate degree program.

For transfer of credit of graduate courses completed at other accredited colleges and universities may be applied as transfer credit toward a graduate certificate at Sam Houston State University at the discretion of each graduate program and the college in which it is housed. Transfer credit is not automatically conferred and must be requested by the graduate advisor. Only courses with an earned grade of "B" or better may be used as transfer credit. The maximum number of hours that may be transferred into a graduate certificate attained at another accredited college or university are as follows:

- 3 hours of transfer credit toward a certificate of 18 hours or less;
- 6 hours of transfer credit toward a certificate of 19 hours or more.

For a student that is enrolled in multiple graduate certificates simultaneously, the maximum number of hours that may count as shared credit are as follows:

- 3 hours of shared credit toward multiple certificates of 18 hours or less;
- 6 hours of shared credit toward multiple certificates of 19 hours or more.

Scholastic Expectations

A minimum grade point average of 3.0, on a 4.0 scale, is required in all coursework taken for graduate credit. All grades earned in courses taken for graduate credit will be utilized in computing the grade point average. If a course is repeated, the highest earned grade will be used for computing the grade point average. A grade earned at another institution may not be used to remove a grade deficiency earned in residence at Sam Houston State University. Semester hours of credit earned at another institution are not utilized in computing the student's Sam Houston State University overall grade point average. Only those transferred courses from accredited institutions in which a grade of "A" or "B" was earned and which are accepted toward an official degree program may be applied toward a degree (see Transfer of Credit (p. 1402)).

Students associated with the College of Osteopathic Medicine will be subject to a different set of scholastic expectations as outlined in their student handbook.

Academic Probation and Suspension

In order to achieve and remain in **academic good standing** at Sam Houston State University, a graduate student must maintain an overall grade point average of at least 3.0 on all graduate coursework attempted.

A 3.0 overall grade point average is the absolute minimum required for graduation. A graduate student who falls below a 3.0 overall grade point average at the close of any semester during which one or more semester credit hours are attempted will be placed on probation. If an enrolled student on probation fails to achieve a minimum 3.0 overall grade point average at the close of the next semester following the start of the probation, the student will be academically terminated.

A student who earns a grade of "C" in any course (repeated or distinct course) within the academic program may have their graduate status reviewed by a committee comprised of the department/school or college's graduate faculty. The committee will recommend an appropriate remediation for the student.

A graduate student who earns a grade of "F" in any graduate course will be terminated from graduate studies.

Those students who earn a grade of "F" during the semester of their anticipated graduation will be terminated from graduate studies and will not be eligible to graduate in that term. The appropriate academic dean may place on probation, retain on probation, or terminate any student deficient in grade points without regard to the regulations previously stated.

Any appeal for a review of the termination of graduate status should be directed in writing through the graduate advisor of the program, then to the chair of the department/school, then to the academic dean of the college, and finally to the Provost and Vice President for Academic Affairs. Refer to Academic Policy Statement 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf) for further information.

If a student wishes to pursue a different program after being terminated from the original program, the student must complete the admissions process and be accepted into the new program. A student must be in Academic Good Standing to change to a new program **or** receive a release from the academic program, academic dean of the college, and Dean of The Graduate & Professional School. Once accepted to the new program, the previous program must release the termination block in the Office of the Registrar before the student can register in the new program.

Students associated with the College of Osteopathic Medicine will be subject to a different academic probation and dismissal process as outlined in their student handbook.

Resignations

A resignation is a withdrawal from all courses and becomes effective on the date it is received by the Registrar's Office. This is the date that is used for determining any refund. The student is responsible for clearing all debts owed to the university before any potential refund is issued.

A resignation will not be allowed if a grade has been earned or a final has been taken.

Students who fail to officially resign from the university will receive an "F" grade for each course in which they are enrolled. If you are enrolled in only one class and are requesting to drop the class, a resignation is required. See Academic Policy 990407 Student Resignations (https://www.shsu.edu/dept/academic-affairs/documents/aps/990407%20Student%20Resignations.pdf) for more information.

If you receive financial aid and resign, you may be responsible for the repayment of certain types of financial aid received. See the Return of Title IV Funds Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/TIVReturn.pdf) for more information. Also, review the Satisfactory

Academic Progress Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf) to better understand how resigning could impact your future aid eligibility.

NOTE:

· A resignation will withdraw a student from all registered courses in the entire term. A student cannot resign from a part of term if another part of term has been completed and a grade has been earned. Ex. If a student completes Summer I and is registered for Summer II, they will not be able to resign from Summer II.

· If this is your first semester attending SHSU and you are resigning before the Census Day (12th Class day for Fall or Spring | 4th Class day for Summer I & II), a new admissions application and non-refundable application fee through ApplyTexas.org (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.applytexas.org%2F&data=05%7C02%7CKAA009%40SHSU.EDU%7Ca4ff40354be94139d83308dd0b1236ed%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C638678895043932973%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=Bw4LsqpZ1u6dOixixD%2Fbz7DofN4WHZdk%2BIXg60hS5uw%3D&reserved=0) are required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or Admissions. (admissions@shsu.edu)

· If a year or more has passed from the term of resignation, a new admissions application will be required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or Admissions (admissions@shsu.edu).

· Students who resign after the twelfth class day of a fall/spring term receive a mark of W (withdrawn) for each course they were enrolled in.

· If a student has received a grade in any course for that term, he/she is ineligible to resign.

· International students must be advised by the International Student Advisor before resigning.

Students considering resigning in the current term should review the Resignation Information page (https://www.shsu.edu/dept/registrar/students/registration/resignation-information.html) and the Resignation Refund Schedule (https://www.shsu.edu/dept/registrar/students/registration/drop-resignations-and-refund-policies.html).

Transcripts

A Sam Houston State University transcript is the official record of a student's academic college credits (transfer courses reported to SHSU, credits earned by exam – CLEP), including all undergraduate and graduate level courses and degrees earned.

For information about ordering your transcript, see the Office of the (https://www.shsu.edu/dept/registrar/transcripts-and-student-records/transcripts.html)Registrar's page (https://www.shsu.edu/dept/registrar/transcripts-and-student-records/transcripts.html).

Transfer of Credit

In accordance with Academic Policy Statement 801007 (https://www.shsu.edu/dept/academic-affairs/documents/aps/801007%20Courses%20and%20Grades%20Transferred%20from%20Other%20Colleges%20and%20Universities.pdf), graduate courses completed at other accredited colleges and universities may be applied as transfer credit toward a graduate degree at Sam Houston State University at the discretion of each graduate program and the college in which it is housed. Transfer credit is not automatically conferred and must be requested by the graduate advisor. Only courses with an earned grade of "B" or better may be used as transfer credit. Transferred courses must adhere to the six year time frame for master's degrees and the eight year time frame for doctoral degrees. If courses are older than the allowed time frame, written justification must be provided by the graduate advisor with approval by the academic dean and the Dean of The Graduate & Professional School for courses to be transferred.

The maximum number of hours that may be transferred into a graduate program are as follows:

- 6 hours of transfer credit toward a degree of 30 hours;
- 9 hours of transfer credit toward a degree of 31 to 36 hours;
- 12 hours of transfer credit toward a degree of 37 to 48 hours;
- 15 hours of transfer credit toward a degree of 49 or more hours.

Students seeking a graduate certificate without simultaneous enrollment in a graduate degree program should reference the Graduate Certificates (p. 1400) section of this catalog for transfer information.

Students are encouraged to contact the appropriate graduate advisor for information concerning transfer credit allowed for a specific degree.

Students seeking to transfer from another institution to the SHSU College of Osteopathic Medicine must apply for transfer via the transfer admissions policy as outlined in the College of Osteopathic Medicine student handbook.

University Academic Policy Manual and Student Guidelines

Sam Houston State University's Academic Policy Manual *(*https://www.shsu.edu/dept/academic-affairs/policies.html*)* and *Student Guidelines* provide specific information pertaining to the educational mission of the University and student conduct. Copies of these publications may also be viewed at the Reference Desk of the Newton Gresham Library.

Students associated with the College of Osteopathic Medicine must adhere to additional policies that can be found in the College of Osteopathic Medicine student handbook.

Financial Information

- Tuition and Fees Schedule - Graduate Students (p. 1407)
- Tuition and Fees Schedule - Osteopathic Medical Students (p. 1409)
- Explanation of Fees (p. 1412)
- Residence Classification for Tuition Purposes (p. 1414)
- Financial Responsibility (p. 1415)
- Payments (p. 1415)
- Installment Payment Plan (p. 1415)
- Nonpayment of Tuition and Fees (p. 1415)
- Collections for Nonpayment (p. 1415)
- Returned Payment Policy (p. 1415)
- Tuition and Fees Refund Policy (p. 1417)
- Dropping Courses (p. 1417)
- Resignations/Withdrawals (p. 1417)
- Financial Aid and Scholarships Office (p. 1404)
- Types of Financial Aid (p. 1404)
- Student Employment (p. 1405)
- Resignations/Withdrawals (p. 1405)
- Satisfactory Academic Progress (SAP) (p. 1405)
- Veteran's Benefits Assistance (p. 1405)
- American Opportunity Tax Credit and Lifetime Learning Tax Credit (p. 1406)
- CPOS Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/cpos112024.pdf)

Financial Aid and Scholarships Office

The Financial Aid and Scholarships Office at Sam Houston State University is available to assist students in achieving educational goals even when their personal or family finances are limited. While the student and/or their immediate family are primarily responsible for financing an education, the University recognizes its role in making a maximum effort to acquire additional funds for qualified students through a variety of aid programs. Specific financial aid programs the University administers are listed below.

For information on programs, application requirements, Satisfactory Academic Progress (SAP), student budgets, priority dates, links to the Free Application for Federal Student Aid (FAFSA) and all forms necessary to complete the application process visit our website Financial Aid & Scholarships (https://www.shsu.edu/dept/financial-aid/).

Types of Financial Aid

Grants

- Texas Public Educational Grant (TPEG)
- Teacher Education Assistance for College and Higher Education Grant (TEACH)

Loans

- Federal Direct Student Loan (Unsubsidized)
- Federal Direct PLUS Loan for Graduate Students
- College Access Loan Program

Semester Loans

- Bearkat Payment Extension Loan
- Short-term Loan for Books

Applications for Semester Loans may be completed online through Sam Web. Semester Loan instructions are available online by visiting Financial Aid & Scholarships (https://www.shsu.edu/dept/financial-aid/).

Scholarships

Sam Houston State University offers scholarships for students who excel in academic achievement and leadership. Using a competitive process, awards are based on either merit or financial need. Some awards are competitively selected on the basis of both merit and financial need.

Most academic scholarships offered by SHSU can be applied for using a single application which can be found on MySam under the Scholarships4Kats page. The application period begins early September for each upcoming academic year. Students must be admitted to Sam Houston State University and have an active computer services account.

Student Employment (Work Study)

Employment opportunities can be accessed online through PeopleAdmin. Students will need to create an account if they do not have one. Instructions can be found on the Human Resources website (https://www.shsu.edu/dept/hr/apply.html).

- Federal College Work-Study Program
- Texas College Work-Study Program

Resignations/Withdrawals

Students who receive Title IV financial aid and withdraw or drop all courses during the semester must be aware of the impact on their financial aid. Federal Title IV aid includes Pell Grant, Supplemental Educational Opportunity Grant, Subsidized/Unsubsidized Stafford Loans, and Direct PLUS Loans. It is recommended that students visit with their Financial Aid Counselor prior to withdrawing or dropping courses.

Title IV aid recipients must be continuously enrolled for at least 60% of the semester for which aid is disbursed to retain all of the financial assistance issued for that semester. After the 60% point, students are considered to have earned 100% of the Title IV funds disbursed. Any student who resigns prior to completing 60% of a semester must repay any unearned portion of their federal financial aid.

The amount of repayment depends on the number of days attended during the semester, the type and amount of financial aid received and the total amount of institutional charges.

Earned federal financial aid is prorated according to the percentage of the semester completed. The earned aid is determined by the amount of total aid received minus the amount of unearned aid.

Unearned aid is allocated and/or returned in the following order:

- Direct Unsubsidized Loan
- Direct PLUS Loan (Graduate Student)
- Teach Grant

Satisfactory Academic Progress (SAP)

Different requirements apply to maintain Satisfactory Academic Progress (SAP). (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf)

Minimum requirements for **post-graduate students** seeking a second bachelor's degree or taking preparatory course work are:

- A minimum SHSU grade point average (GPA) of 2.0.
- 67% completion rate of all hours attempted for the program.
- Completion of second bachelor's degree within 150% of the degree requirements **or** completion of preparatory course work within 60 credit hours.

Minimum requirements for **graduate and professional students** are:

- A minimum SHSU grade point average (GPA) of 3.0.
- 67% completion rate of all attempted graduate hours.
- Completion of program within 150% of the degree requirements.

Minimum requirements for **Osteopathic medical students** are:

- Remain in good academic standing and meet the minimum criteria set by the College of Osteopathic Medicine.
- 67% completion rate of all attempted hours.
- Completion of program within 150% of the degree requirements.

For more information, view the complete SAP Policy (http://catalog.shsu.edu/graduate-and-professional/financial-information/chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf).

Veteran's Benefits Assistance

For information relating to Veteran's Benefits Assistance, visit with the School Certifying Officials located in the Estill Building, Suite 228 or the VETSUCCESS counselor in the Veteran's Resource Center, located in the Academic Building III, Suite 110. Assistance is available for those seeking to use the following:

- Montgomery GI Bill® (MGIB) - GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official U.S. Government Website (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill.&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0%2FN661cHeanOl2BeQ36GAoKTorfcqcC6P5RIzMrqkL4%3D&reserved=0) at https://www.benefits.va.gov/gibill (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2cu8vKUFxp1UnqO93EIHZr2mTgCO2O9bqxDq%2Bd2NSaQ%3D&reserved=0)
- Chapter 30 - Veteran status
- Chapter 31 – Veteran Readiness and Employment
- Chapter 33 – Post 9/11 GI Bill®
- Chapter 35 - Dependent
- Chapter 1606 – Reservist
- Hazlewood Act

American Opportunity Tax Credit and Lifetime Learning Tax Credit

Tax payers may be eligible to claim the American Opportunity Tax Credit against their federal income taxes. Depending on the family and student financial situation, the credit that may be claimed varies. It may be as much as $2,500 (100% of first $2,000 and 25% of second $2,000 of qualified tuition and related expenses such as tuition, fees and course materials).

In addition, the Lifetime Learning Credit may be available for up to $2,000 per family for qualified tuition and related expenses. Congress has established that the Lifetime Learning Tax Credit begins for payments made after July 1, 1998.

These tax credits may reduce the amount of federal income tax one is required to pay. These tax credits are reviewed by the federal government periodically, therefore, annual referral to the IRS website is recommended.

CPOS Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/cpos.pdf)

Per Title IV regulations, a student cannot receive federal aid for coursework that does not lead to the completion of their degree. This is stated in CFR 34 668.32 (a)(1)(i) which defines “a regular student as one that is enrolled or accepted for enrollment at an institution for the purpose of obtaining a degree, certificate, or other recognized educational credential offered by that institution.” In summary, Title IV funds are intended to pay for courses that go towards a student’s program of student to assist them in obtaining an academic credential.

Tuitions & Fees

- Tuition and Fees Schedule - Graduate Students (p. 1407)
- Tuition and Fees Schedule - Osteopathic Medical Students (p. 1409)
- Explanation of Fees (p. 1412)
- Residence Classification for Tuition Purposes (p. 1414)

Tuition and Fees Schedule 2025-2026 Academic Year - Graduate Students

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System. Nonresident tuition (out-of-state and international) is calculated each year by the Texas Higher Education Coordinating Board.

Fall 2025 - Spring 2026

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	741.85	1	1,146.85
2	1,208.70	2	2,018.70
3	1,675.55	3	2,890.55
4	2,142.40	4	3,762.40
5	2,609.25	5	4,634.25
6	3,076.10	6	5,506.10
7	3,542.95	7	6,377.95
8	4,009.80	8	7,249.80
9	4,476.65	9	8,121.65
10	4,943.50	10	8,993.50
11	5,410.35	11	9,865.35
12	5,877.20	12	10,737.20
13	6,344.05	13	11,609.05
14	6,810.90	14	12,480.90
15	7,263.75	15	13,338.75
16	7,713.00	16	14,193.00
17	8,162.25	17	15,047.25
18	8,611.50	18	15,901.50
19	9,060.75	19	16,755.75
20	9,510.00	20	17,610.00
21	9,959.25	21	18,464.25
22	10,408.50	22	19,318.50
23	10,857.75	23	20,172.75
24	11,307.00	24	21,027.00

Summer 2026

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	723.05	1	1,128.05
2	1,171.10	2	1,981.10
3	1,619.15	3	2,834.15
4	2,067.20	4	3,687.20
5	2,515.25	5	4,540.25
6	2,963.30	6	5,393.30
7	3,411.35	7	6,246.35
8	3,859.40	8	7,099.40

9	4,307.45	9	7,952.45
10	4,755.50	10	8,805.50
11	5,203.55	11	9,658.55
12	5,651.60	12	10,511.60

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Course-related or program-related fees are examples of fees not included in the above estimates. Please review Explanation of Fees (p. 1412) in this catalog.

Tuition and Fees Schedule 2026-2027 Academic Year - Graduate Students

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System. Nonresident tuition (out-of-state and international) is calculated each year by the Texas Higher Education Coordinating Board.

Fall 2026 - Spring 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	741.85	1	1,146.85
2	1,208.70	2	2,018.70
3	1,675.55	3	2,890.55
4	2,142.40	4	3,762.40
5	2,609.25	5	4,634.25
6	3,076.10	6	5,506.10
7	3,542.95	7	6,377.95
8	4,009.80	8	7,249.80
9	4,476.65	9	8,121.65
10	4,943.50	10	8,993.50
11	5,410.35	11	9,865.35
12	5,877.20	12	10,737.20
13	6,344.05	13	11,609.05
14	6,810.90	14	12,480.90
15	7,263.75	15	13,338.75
16	7,713.00	16	14,193.00
17	8,162.25	17	15,047.25
18	8,611.50	18	15,901.50
19	9,060.75	19	16,755.75
20	9,510.00	20	17,610.00
21	9,959.25	21	18,464.25
22	10,408.50	22	19,318.50
23	10,857.75	23	20,172.75
24	11,307.00	24	21,027.00

Summer 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	723.05	1	1,128.05
2	1,171.10	2	1,981.10
3	1,619.15	3	2,834.15
4	2,067.20	4	3,687.20
5	2,515.25	5	4,540.25

6	2,963.30	6	5,393.30
7	3,411.35	7	6,246.35
8	3,859.40	8	7,099.40
9	4,307.45	9	7,952.45
10	4,755.50	10	8,805.50
11	5,203.55	11	9,658.55
12	5,651.60	12	10,511.60

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Course-related or program-related fees are examples of fees not included in the above estimates. Please review Explanation of Fees (p. 1412) in this catalog.

Tuition and Fees Schedule 2025-2026 and 2026-2027 Academic Year - Osteopathic Medical Students

Academic Year 2024-2025 (https://www.shsu.edu/dept/financial-aid/cost/)

Annual Program Rates	Texas Resident	Nonresident
Program Fee:	$19,950.00	$21,950.00
Statutory Tuition:	$6,550.00	$19,650.00
Insurance:	$2,193.00	$2,193.00

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System.

Academic Year 2025-2026 (https://www.shsu.edu/dept/financial-aid/cost/)

Annual Program Rates	Texas Resident	Nonresident
Program Fee:	$19,950.00	$21,950.00
Statutory Tuition:	$6,550.00	$19,650.00
Insurance:	$2,193.00	$2,193.00

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System.

Tuition and Fees Schedule 2025-2026 Academic Year (Summer 2026) - Master of Education in Special Education (with Educational Diagnostician Certification)

Tuition and Fees Per Summer Session

Summer 2026

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	648.05	1	1,053.05
2	1,021.10	2	1,831.10
3	1,394.15	3	2,603.15
4	1,767.20	4	3,387.20
5	2,140.25	5	4,165.25
6	2,513.30	6	4,943.30
7	2,886.35	7	5,721.35
8	3,259.40	8	6,499.40
9	3,632.45	9	7,277.45
10	4,005.50	10	8,055.50

11	4,378.55	11	8,833.55
12	4,751.60	12	9,611.60

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Tuition and Fees Schedule 2026-2027 Academic Year - Master of Education in Special Education (with Educational Diagnostician Certification)

Tuition and Fees Per Semester

Fall 2026 - Spring 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	666.85	1	1,071.85
2	1,058.70	2	1,868.70
3	1,450.55	3	2,665.55
4	1,842.40	4	3,462.40
5	2,234.25	5	4,259.25
6	2,626.10	6	5,056.10
7	3,017.95	7	5,852.95
8	3,409.80	8	6,649.80
9	3,801.65	9	7,446.65
10	4,193.50	10	8,243.50
11	4,585.35	11	9,040.35
12	4,977.20	12	9,837.20

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Tuition and Fees Per Summer Session

Summer 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	648.05	1	1,053.05
2	1,021.10	2	1,831.10
3	1,394.15	3	2,603.15
4	1,767.20	4	3,387.20
5	2,140.25	5	4,165.25
6	2,513.30	6	4,943.30
7	2,886.35	7	5,721.35
8	3,259.40	8	6,499.40
9	3,632.45	9	7,277.45
10	4,005.50	10	8,055.50
11	4,378.55	11	8,833.55
12	4,751.60	12	9,611.60

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Tuition and Fees Schedule 2025-2026 Academic Year (Summer 2026) - Master of Library Science (with School Librarian Certification)

Tuition and Fees Per Summer Session

Summer 2026

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	648.05	1	1,053.05
2	1,021.10	2	1,831.10
3	1,394.15	3	2,609.15
4	1,767.20	4	3,387.20
5	2,140.25	5	4,165.25
6	2,513.30	6	4,943.30
7	2,886.35	7	5,721.35
8	3,259.40	8	6,499.40
9	3,632.45	9	7,277.45
10	4,005.50	10	8,055.50
11	4,378.55	11	8,833.55
12	4,751.60	12	9,611.60

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Tuition and Fees Schedule 2026-2027 Academic Year - Master of Library Science (with School Librarian Certification)

Tuition and Fees Per Semester

Fall 2026 - Spring 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	666.85	1	1,071.85
2	1,058.70	2	1,868.70
3	1,450.55	3	2,665.55
4	1,842.40	4	3,462.40
5	2,234.25	5	4,259.25
6	2,626.10	6	5,056.10
7	3,017.95	7	5,852.95
8	3,409.80	8	6,649.80
9	3,801.65	9	7,446.65
10	4,193.50	10	8,243.50
11	4,585.35	11	9,040.35
12	4,977.20	12	9,837.20

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Tuition and Fees Per Summer Session

Summer 2027

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	648.05	1	1,053.05
2	1,021.10	2	1,831.10
3	1,394.15	3	2,609.15
4	1,767.20	4	3,387.20
5	2,140.25	5	4,165.25
6	2,513.30	6	4,943.30
7	2,886.35	7	5,721.35
8	3,259.40	8	6,499.40
9	3,632.45	9	7,277.45
10	4,005.50	10	8,055.50
11	4,378.55	11	8,833.55
12	4,751.60	12	9,611.60

[1] Included in the amounts above are Tuition, Graduate Tuition, Designated Tuition, Graduate Designated Tuition Differential, Institutional Services Fee, Student Service Fee, Student Center Fee, Recreational Sports Fee, Medical Fee, and Intercollegiate Athletic Fee.

Explanation of Fees

Osteopathic Medical Student

Program Fee: Are assessed at the semester rate of $9,975.00 for Texas Residents and $10,975.00 for Nonresidents in academic years 2025-2026 and 2026-2027.

Statutory Tuition: Resident students pay $3,275.00 in tuition per semester during academic year 2025-26 and 2026-27 Nonresident students (out-of-state and international) pay $9,825.00 in tuition per semester during academic year 2025-26 and 2026-27. Osteopathic Medicine students are registered into block sections per semester resulting in flat rates. The Texas Higher Education Coordinating Board calculates each year the nonresident tuition.

Insurance and Books: Additional charges for books and health insurance may be assessed at the time of registration.

The above information is not intended to be comprehensive and is subject to change. Program fees, tuition, fees, and charges are subject to change by action of the State Legislature or by action of the Board of Regents of The Texas State University System. The above program fee, tuition, fees, and charge information should only be used as a guideline for estimating costs. For more information, review SHSU's Cost of Attendance (https://www.shsu.edu/dept/financial-aid/cost/). For clarification of any matter relating to payment or refund of program fees, tuition, fees, charges, and deposits, contact the office or administrative unit from which the charge or refund originated.

The following Explanation of Fees section does not pertain to Osteopathic Medical Students unless otherwise stated.

The following information is not intended to be comprehensive and is subject to change. Tuition, fees, and charges are subject to change by action of the State Legislature or by action of the Board of Regents of The Texas State University System. The following tuition, fees, and charge information should only be used as a guideline for estimating costs. For clarification of any matter relating to payment or refund of tuition, fees, charges, and deposits, contact the office or administrative unit from which the charge or refund originated.

Statutory Tuition: Resident students pay $50 tuition per semester credit hour during academic year 2025-26 and 2026-27 Nonresident students (out-of-state and international) pay $455 in tuition per semester credit hour during academic year 2025-26 and 2026-27. The Texas Higher Education Coordinating Board calculates each year the nonresident tuition. Students enrolled in the same course for the third or more time will be charged a rate up to the non-resident tuition rate for the hours associated with the course even if the student normally qualifies for in-state tuition. Resident students who reach the “excessive hour limit” will be charged a set rate per hour (see Tuition for Excessive Undergraduate Hours within this chapter for further details).

Designated Tuition is charged at the rate of $194.00 per semester credit hour during academic year 2025-26 and 2026-27. In addition, graduate designated tuition differential will be charged at the rate of $26.25 per credit hour for academic years 2025-26 and 2025-26.

Graduate Tuition Increment: Graduate tuition is charged at the rate of $50.00 per semester credit hour for academic year 2025-26 and 2026-27.

Institutional Services Fee: The institutional services fee is charged at a rate of $109 per semester credit hour for academic year 2025-26 and at a rate of $109 per semester credit hour for academic year 2026-27. The fee funds critical support services and infrastructure which allow for continued support of existing services and operations and allows for expansion of programs and services.

Student Service Fee: The student service fee per semester credit hour is $17.60 for academic year 2025-26 and 2026-27 ($8.80 per summer semester) (not exceeding $250 per semester and $125 per summer session). The fee supports the Intramural Program, the Student Life Support Programs, and the Extramural Programs. The fee provides admission to athletic events at Sam Houston State under the auspices of the Department of Athletics.

Student Center Fee: The student center fee is required at the rate of $100 per semester ($100 per summer session) for academic year 2025-26 and academic year 2026-27 and is used to fund the Lowman Student Center programs and activities.

Recreational Sports Fee: Legislative action authorizes a recreational sports fee not to exceed $100 per semester for academic year 2025-26 and academic year 2026-27 It may be used to purchase equipment for and/or construct, operate, maintain recreational sports facilities and programs.

Medical Fee: A fee of $75 per semester is charged for academic year 2025-26 and academic year 2026-27. This fee covers services at the Student Health Center.

Intercollegiate Athletic Fee: A fee of $20 per semester credit hour ($ 10 per summer semester credit hour) is charged for academic year 2025-26 and academic year 2026-27. This fee will be used to support Intercollegiate Athletic programs.

Other Fees

Audit Fee: A $50 fee per course that is audited.

Distance Learning Fee: A fee of $101 per credit hour is charged in addition to tuition and mandatory fees when a course is designated as an electronically delivered (internet) distance learning course.

Distance Learning Fee for Master of Education in Special Education (with Educational Diagnostician Certification): A fee of $50 per credit hour is charged in addition to tuition and mandatory fees when a course is designated as an electronically delivered (internet) distance learning course.

Distance Learning Fee for Master of Library Science (with School Librarian Certification): A fee of $50 per credit hour is charged in addition to tuition and mandatory fees when a course is designated as an electronically delivered (internet) distance learning course.

Lab Fee: Lab fees are charged at the rate of $8 each course with a lab component.

College of Science & Engineering Technology Lab Fee (per lab): charged at rate of $16 per lab

Music Fee: Music fees are charged for music courses that require individual instruction. (charged per course)

Semester credits	Fee
1 semester credit hour:	$30
2 semester credit hours:	$60
3 semester credit hours:	$75
4 semester credit hours:	$75

International Study Fee: A fee of $75 per semester charged to international students for services provided through the Office of International Programs.

"Three Peat" Tuition: In order to provide for loss of state funding, students attempting a course for the third or more time will be charged a statutory tuition rate up to the non-resident rate. The rate is currently $168 per semester credit hour.

Payment Plan Enrollment Fee: (Pertains to all students enrolled in payment plan including Osteopathic Medical Students) A non-refundable fee of $30 is assessed to students who enroll or opt-in for enrollment into an installment payment plan.

Late Installment Payment Penalty: (Pertains to all students enrolled in a payment plan including Osteopathic Medical Students) A $30 late fee is charged for each installment payment received after the installment due date.

The Woodlands Center Fee (passed through the Board as the University Center Fee): A fee of $75 / SCH for courses taught at The Woodlands Center.

Program Fees:

College of Business Administration: This fee is charged at a rate of $8 per semester credit hour for all enrolled credit hour for academic year 2025-26 and at a rate of $8 per semester credit hour for academic year 2026-27. This fee is charged to students who are majoring in programs within the College of Business Administration.

Engineering Technology Fee: This fee is charged at a rate of $8 per semester credit hour for all enrolled credit hour for academic year 2025-26 and at a rate of $8 per semester credit hour for academic year 2026-27. This fee is charged to students who are majoring in programs within the Department of Engineering Technology.

Master of Science in Athletic Training: This fee is charged at a rate of $555 per semester for academic year 2025-26 and at a rate of $555 per semester for academic year 2026-27. This fee is charged to students who are enrolled in the Master of Science in Athletic Training program.

Master of Education in School Leadership: This fee is charged at a rate of $280.00 per semester credit hour for academic year 2025-26 and at a rate of $280.00 per semester credit hour for academic year 2026-27. This fee is charged to students enrolled in the Master of Educational Leadership program.

Alternative Teacher Certification Program: This fee is charged a one-time program fee of $5,860 and a one-time administrative fee of $135 per academic year 2025-26 and a one-time program fee of $5,860 and a one-time administrative fee of $135 per academic year 2026-27. This fee is charged to students enrolled in the Alternative Teaching Certification Program.

Residence Classification for Tuition Purposes

The Texas Legislature and the Texas Higher Education Coordinating Board (https://www.highered.texas.gov/) establish the rules and regulations for determining residence classification. These rules are subject to revision by the legislature and the Texas Higher Education Coordinating Board. Rules for Texas residency classification for University tuition are different from residency rules for voting, obtaining a Texas driver's license, or tax purposes. The deadline to update a residency status is the census date (Academic Calendar Q-drop day (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html)) of each semester.

An individual's initial residency classification is determined based on information from his or her admission application. Texas law classifies each person who applies for admission to a Texas public college or university as:

- A resident of Texas;
- A nonresident; or
- A foreign (international) student.

A nonresident student may qualify to pay in-state tuition by meeting the requirements of a tuition waiver. Current tuition waiver options include but are not limited to

1. the student or his/her spouse or parent is a member of the U.S. Armed Forces and their home of record is Texas;
2. the student or his/her spouse or parent is employed at least half-time by an institution of higher education in Texas as a teacher or professor;
3. the student or his/her spouse or parent has a teaching or research assistantship at any Texas institution of higher education on at least a half-time basis;
4. the student holds a competitive scholarship (https://www.shsu.edu/dept/academic-affairs/documents/aps/850822%20Competitive%20Academic%20Scholarships.pdf) awarded by Sam Houston State University of at least $1,000; or
5. the student or student's family has been transferred to Texas by a company in keeping with the state's Economic Development and Diversification Program.

By state law, the student has the responsibility of registering under the proper residence classification. For more information concerning the rules and regulations for determining Texas residence classification, visit residency (https://www.shsu.edu/admissions/residency/) or contact:

Residency Classification Officer
Sam Houston State University
Box 2418
Huntsville, Texas 77341-2418
(936) 294-1059

Payment Information

- Financial Responsibility (p. 1415)
- Payments (p. 1415)
- Installment Payment Plan (p. 1415)
- Nonpayment of Tuition and Fees (p. 1415)
- Collections for Nonpayment (p. 1415)
- Returned Payment Policy (p. 1415)

Financial Responsibility

Tuition and Fees: Students must pay all tuition and fee balances in full by the applicable semester deadline established by the University. Failure to timely pay balances owed or make arrangements for installment payments may result in the student being unenrolled and dropped from course registrations. Payment dates will be published on the Cashier's Office website at https://www.shsu.edu/dept/cashiers/due-dates (https://www.shsu.edu/dept/cashiers/due-dates/).

Payments

Payments made for registration purposes may be made by cash, cashier's check, personal check, or money order in the Student Account Services Office in Estill Classroom building, room 103. All checks and money orders accepted are subject to final payment. Online payments may be made by E-Check, International Wire, MasterCard, Visa, American Express, JCB, China Union, Diner's Club, or Discover.

Installment Payment Plan

Sam Houston State University offers students the option to pay tuition and fees in full or by installment for the fall, spring, and summer semesters of each academic year in accordance with applicable statutes and regulations, including Tex. Educ. Code §§ 54.007 and 54.0071 and The Texas State University System Rules & Regulations. Installment payment plan terms will be published on the Cashier's Office website at https://www.shsu.edu/dept/cashiers/payment-plan (https://www.shsu.edu/dept/cashiers/payment-plan/).

It should not be assumed by the student that the University will disenroll (drop their class schedule) them from their courses due to not meeting payment requirements. A student who discontinues going to class without officially resigning from the University will be subject to the grade of "F" in each course and will be financially responsible for any university charges.

STATUTORY WARNING: A STUDENT WHO FAILS TO MAKE FULL PAYMENT OF TUITION AND MANDATORY FEES, INCLUDING ANY INCIDENTAL FEES, BY THE DUE DATE MAY BE PROHIBITED FROM REGISTERING FOR CLASSES UNTIL FULL PAYMENT IS MADE. A STUDENT WHO FAILS TO MAKE PAYMENT PRIOR TO THE END OF THE SEMESTER OR TERM MAY BE DENIED CREDIT FOR WORK DONE THAT SEMESTER OR TERM.

Nonpayment of Tuition and Fees

All Balances: If a student fails to meet end-of-term payment requirements, the University may prohibit the student from enrolling in future semesters until the student's balance is paid in full. In addition, the University may pursue internal or external debt collection as described on our Past Due Balances web page at https://www.shsu.edu/dept/sfs/pastdue.html.

Students who pay fees with a returned item may suffer the above sanctions as well as those detailed in the following section.

Collections for Nonpayment

Nonpayment by the end of the semester may result in transfer of the student's account to a contracted collection agency and assessment of a collection fee of up to 30 percent of the outstanding balance. The University may also choose to litigate an account on advice of university legal counsel. Should an account be litigated, the student will be responsible for all litigation expenses including attorney's fees and court costs. Accounts that are referred to a contracted collection agency may also be reported to credit bureaus.

Returned Payment Policy

A returned payment is defined as an item returned to the University rightfully unpaid due to no fault of the bank or the University.

- The University accepts payment by personal check, which includes E-Check (ACH) payments online, and reserves the right to withdraw that privilege at any time to anyone.
- The University accepts payment by credit card online and reserves the right to withdraw that privilege at any time to anyone.
- The person receiving the benefit from the returned check, ACH, or credit card payment is responsible for repayment if the item is returned to the University unpaid or disputed.
- A twenty-five dollar ($25) returned item charge and the amount of the returned item will be posted to the account of the person who received benefit of the check, ACH, or credit card payment.

- Students, who fail to clear their account of returned checks, ACH, or credit card payments within ten days, MAY BE resigned from school and will have to pay a fifty dollar ($50) reinstatement fee, the returned item, and returned item charge.
- It should not be assumed the University will resign the student. A student who discontinues going to class without officially resigning from the University will be subject to the grade of “F” in each course.
- Students who have been resigned are eligible for reinstatement upon repayment of the fifty dollar ($50) reinstatement fee, the returned item, and the returned item charge.
- Stop payments are considered returned items and are subject to all penalties.
- A student who fails to make payment prior to the first day of final exams may not receive credit for the work done that semester and will not be allowed to register for future semesters until the delinquent amount is paid. In addition, unpaid returned items may be turned over to other agencies for prosecution and collection.
- Any questions concerning this matter may be addressed to the Student Financial Services Office at (936) 294-1087 or email at sfs@shsu.edu.

Refund Information

- Tuition and Fees Refund Policy (p. 1417)
- Dropping Courses (p. 1417)
- Resignations/Withdrawals (p. 1417)
- Tuition and Fee Refund Schedule (p. 1418)

Tuition and Fees Refund Policy

A student enrolled at Sam Houston State University (SHSU) may receive a refund of tuition and fees as a result of dropping courses or resigning from the university, as indicated in the following schedules.

Refunds and credits from one department will be applied to any other outstanding balances in other departments. Any remaining refund will be sent to the selected refund preference with BankMobile Disbursements, a technology solution powered by BMTX, Inc. The university may refund tuition and fees paid by a sponsor, donor, or scholarship to the source rather than directly to the student who has withdrawn if the funds were made available to the university.

Refund policies were established by Senate Bill No. 604 of the 65th Legislature and adopted by the Board of Regents, Texas State University System, in August of 1977 and by the applicable federal regulations dealing with first-semester financial aid students.

Dropping Courses

A student who drops one or more courses for any given term but remains enrolled in at least one course for the remainder of the semester as a student at this university may be eligible for refunds. There is a 100% refund (does not apply to students dropping to "0" hours) for dropping courses within the first 12 class days of fall, spring, and summer terms. Drops must be processed by 11:59 p.m. on the day of the deadline to receive a refund if courses have been paid in full. Students cannot drop their last course. A resignation must be submitted if dropping their only course for the term.

Students may drop courses online without the grade of "Q" until the census day of the term. See Add, Drop and Resignation Deadlines (https://www.shsu.edu/dept/registrar/students/registration/add-drop-resignation-deadlines.html).

Osteopathic Medical Students:

Students associated with the College of Osteopathic Medicine will be registered in course blocks required for promotion to the next semester. Osteopathic medical students are not permitted to drop individual courses that are a part of these blocks.

Fall, Spring, and Summer Terms

Date	Refund %
First 12 class days	100%
After 12th class day	None

NOTE: Class days are university class days, not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus courses as indicated in the Academic Calendar.

Resignations/Withdrawals

Deadlines and dates may be found on the Add, Drop, and Resignation Deadlines webpage (https://www.shsu.edu/dept/registrar/students/registration/add-drop-resignation-deadlines.html).

A resignation is a withdrawal from all courses and becomes effective on the date it is received by the Registrar's Office. The student is responsible for clearing all debts owed to the university before any potential refund is issued.

A resignation will not be allowed if a grade has been earned or a final has been taken.

Students who fail to officially resign from the university will receive a grade of "F" for each course in which they are enrolled. If a student is enrolled in only one course they must resign. See Academic Policy Statement 990407 Student Resignations (https://shsu.edu/dept/registrar/students/registration/documents/990407%20Student%20Resignations-%20academic%20affairs%20policy.pdf) for more information.

Students receiving financial aid who resign, may be responsible for the repayment of certain types of financial aid received during the term. For more information, view the Return of Title IV Funds Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/TIVReturn.pdf). Also, review the Satisfactory Academic Progress Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf) to better understand how this could impact future aid eligibility.

NOTE:

- A resignation will withdraw a student from all registered courses in the entire term. A student cannot resign from a part of term if a grade has been earned in another part of term. Ex. If a student completes Summer I and is registered for Summer II, they will not be permitted to resign from Summer II.
- If this is your first-semester attending SHSU and you are resigning prior to the Census Day (12th Class day for Fall, Spring, Summer), a new admissions application and non-refundable application fee through ApplyTexas.org are required. If you have any questions, please contact the Office of Admissions at 936-294-1828 or email Admissions (admissions@shsu.edu). (admissions@shsu.edu)
- If a year or more has passed from the term of resignation, a new admissions application will be required. If you have any questions, please, contact the Office of Admissions at 936-294-1828 or email Admissions (admissions@shsu.edu).

A student who is considering resigning should visit the Resignation Information (https://www.shsu.edu/dept/registrar/students/registration/resignation-information.html) page.

Tuition and Fees Refund Schedule

Refund Schedule For Terms 10 Weeks or Greater

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day through 5th class day	80%
Day after 5th class day through 10th class day	70%
Day after 10th class day through 15th class day	50%
Day after 15th class day through 20th class day	25%
Thereafter	No refund

Refund Schedule For Terms Less Than 10 Weeks But Greater Than 5 Weeks

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day through 3rd class day	80%
Day after 3rd class day through 6th class day	50%
Thereafter	No refund

Refund Schedule For Terms Up To 5 Weeks

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day	80%
2nd class day	50%
3rd class day and thereafter	No refund

NOTE:

- Class days are university class days, not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus courses as indicated in the Academic Calendar.
- Once a class day ends, any refund will be calculated using the subsequent refund percentage. (Example: If a resignation is received on the weekend, it will be calculated using the refund percentage for the following class day, not the proceeding class day.) The student's last date of attendance/engagement in the course may be used for determining any refund.

The above refund schedules assume all fees have been paid in full. A different schedule applies to installment payment plan participants. Therefore, it is possible that a student enrolled in an installment payment plan could owe **more** in tuition and fees than already collected by the university.

Students who receive Title IV aid and resign on or before completing 60% of the semester will be required to repay the percentage of unearned financial aid according to the federal "Return to Title IV Aid" formula derived from the 1998 Reauthorization of the Higher Education Act. Students who receive Title IV aid should contact the Financial Aid Office (https://www.shsu.edu/dept/financial-aid/) for specifics.

Repayments are to be returned to lenders and/or program accounts in the following statutorily specified order provided the student has received funds through the program:

1. Unsubsidized Federal Stafford Loan
2. Subsidized Federal Stafford Loan
3. Federal Perkins Loans
4. Federal PLUS Loans

5. Other federal, state, private or institutional sources of aid
6. The student

More details regarding the Return to Title IV Aid policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/TIVReturn.pdf) may be obtained through the Financial Aid (https://www.shsu.edu/dept/financial-aid/) website or by visiting the Financial Aid Office located on the 2nd floor of the Estill Building.

Financial Aid & Scholarships Office

- Financial Aid and Scholarships Office (p. 1420)
- Types of Financial Aid (p. 1420)
- Student Employment (p. 1420)
- Resignations/Withdrawals (p. 1420)
- Satisfactory Academic Progress (SAP) (p. 1421)
- Veteran's Benefits Assistance (p. 1421)
- American Opportunity Tax Credit and Lifetime Learning Tax Credit (p. 1422)
- CPOS Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/cpos112024.pdf)

Financial Aid and Scholarships Office

The Financial Aid and Scholarships Office at Sam Houston State University is available to assist students in achieving educational goals even when their personal or family finances are limited. While the student and/or their immediate family are primarily responsible for financing an education, the University recognizes its role in making a maximum effort to acquire additional funds for qualified students through a variety of aid programs. Specific financial aid programs the University administers are listed below.

For information on programs, application requirements, Satisfactory Academic Progress (SAP), student budgets, priority dates, links to the Free Application for Federal Student Aid (FAFSA) and all forms necessary to complete the application process visit our website Financial Aid & Scholarships (https://www.shsu.edu/dept/financial-aid/).

Types of Financial Aid

Grants

- Texas Public Educational Grant (TPEG)
- Teacher Education Assistance for College and Higher Education Grant (TEACH)

Loans

- Federal Direct Student Loan (Unsubsidized)
- Federal Direct PLUS Loan for Graduate Students
- College Access Loan Program

Semester Loans

- Bearkat Payment Extension Loan
- Short-term Loan for Books

Applications for Semester Loans may be completed online through Sam Web. Semester Loan instructions are available online by visiting Financial Aid & Scholarships (https://www.shsu.edu/dept/financial-aid/).

Scholarships

Sam Houston State University offers scholarships for students who excel in academic achievement and leadership. Using a competitive process, awards are based on either merit or financial need. Some awards are competitively selected on the basis of both merit and financial need.

Most academic scholarships offered by SHSU can be applied for using a single application which can be found on MySam under the Scholarships4Kats page. The application period begins early September for each upcoming academic year. Students must be admitted to Sam Houston State University and have an active computer services account.

Student Employment (Work Study)

Employment opportunities can be accessed online through PeopleAdmin. Students will need to create an account if they do not have one. Instructions can be found on the Human Resources website (https://www.shsu.edu/dept/hr/apply.html).

- Federal College Work-Study Program
- Texas College Work-Study Program

Resignations/Withdrawals

Students who receive Title IV financial aid and withdraw or drop all courses during the semester must be aware of the impact on their financial aid. Federal Title IV aid includes Pell Grant, Supplemental Educational Opportunity Grant, Subsidized/Unsubsidized Stafford Loans, and Direct PLUS Loans. It is recommended that students visit with their Financial Aid Counselor prior to withdrawing or dropping courses.

Title IV aid recipients must be continuously enrolled for at least 60% of the semester for which aid is disbursed to retain all of the financial assistance issued for that semester. After the 60% point, students are considered to have earned 100% of the Title IV funds disbursed. Any student who resigns prior to completing 60% of a semester must repay any unearned portion of their federal financial aid.

The amount of repayment depends on the number of days attended during the semester, the type and amount of financial aid received and the total amount of institutional charges.

Earned federal financial aid is prorated according to the percentage of the semester completed. The earned aid is determined by the amount of total aid received minus the amount of unearned aid.

Unearned aid is allocated and/or returned in the following order:

- Direct Unsubsidized Loan
- Direct PLUS Loan (Graduate Student)
- Teach Grant

Satisfactory Academic Progress (SAP)

Different requirements apply to maintain Satisfactory Academic Progress (SAP). (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf)

Minimum requirements for **post-graduate students** seeking a second bachelor's degree or taking preparatory course work are:

- A minimum SHSU grade point average (GPA) of 2.0.
- 67% completion rate of all hours attempted for the program.
- Completion of second bachelor's degree within 150% of the degree requirements **or** completion of preparatory course work within 60 credit hours.

Minimum requirements for **graduate and professional students** are:

- A minimum SHSU grade point average (GPA) of 3.0.
- 67% completion rate of all attempted graduate hours.
- Completion of program within 150% of the degree requirements.

Minimum requirements for **Osteopathic medical students** are:

- Remain in good academic standing and meet the minimum criteria set by the College of Osteopathic Medicine.
- 67% completion rate of all attempted hours.
- Completion of program within 150% of the degree requirements.

For more information, view the complete SAP Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/SAP.pdf).

Veteran's Benefits Assistance

For information relating to Veteran's Benefits Assistance, visit with the School Certifying Officials located in the Estill Building, Suite 228 or the VETSUCCESS counselor in the Veteran's Resource Center, located in the Academic Building III, Suite 110. Assistance is available for those seeking to use the following:

- Montgomery GI Bill® (MGIB) - GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official U.S. Government Website (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2cu8vKUFxp1UnqO93EIHZr2mTgCO2O9bqxDq%2Bd2NSaQ%3D&reserved=0) at https://www.benefits.va.gov/gibill (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.benefits.va.gov%2Fgibill&data=05%7C01%7Carg019%40SHSU.EDU%7C4f2ba313c3c144ba860208da805eb341%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C637963441751384826%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2cu8vKUFxp1UnqO93EIHZr2mTgCO2O9bqxDq%2Bd2NSaQ%3D&reserved=0)
- Chapter 30 - Veteran status
- Chapter 31 – Veteran Readiness and Employment
- Chapter 33 – Post 9/11 GI Bill®
- Chapter 35 - Dependent
- Chapter 1606 – Reservist
- Hazlewood Act

American Opportunity Tax Credit and Lifetime Learning Tax Credit

Tax payers may be eligible to claim the American Opportunity Tax Credit against their federal income taxes. Depending on the family and student financial situation, the credit that may be claimed varies. It may be as much as $2,500 (100% of first $2,000 and 25% of second $2,000 of qualified tuition and related expenses such as tuition, fees and course materials).

In addition, the Lifetime Learning Credit may be available for up to $2,000 per family for qualified tuition and related expenses. Congress has established that the Lifetime Learning Tax Credit begins for payments made after July 1, 1998.

These tax credits may reduce the amount of federal income tax one is required to pay. These tax credits are reviewed by the federal government periodically, therefore, annual referral to the IRS website is recommended.

CPOS Policy (https://www.shsu.edu/dept/financial-aid/policies-disclosures/cpos.pdf)

Per Title IV regulations, a student cannot receive federal aid for coursework that does not lead to the completion of their degree. This is stated in CFR 34 668.32 (a)(1)(i) which defines “a regular student as one that is enrolled or accepted for enrollment at an institution for the purpose of obtaining a degree, certificate, or other recognized educational credential offered by that institution.” In summary, Title IV funds are intended to pay for courses that go towards a student’s program of student to assist them in obtaining an academic credential.

Licensure and Certification Disclosure

General Disclosure

Notice to students pursuing programs that may lead to a professional license or certification required for employment.

The identified programs may lead to a professional license or certification that is required for employment. Professional licensure/certification requirements vary from state to state, which may affect a student's ability to apply for a professional license/certification upon the completion of the program. The U.S. Department of Education regulation, *34 CFR 668.43 (a) (5) (v)*, requires an institution to disclose whether the program will fulfill educational requirements for licensure or certification for each state. The administrative departments that offer the programs have made the following determination regarding their curriculum.

We recommend students contact the appropriate state licensing agency in their state or the state where they intend to work to seek the most up-to-date information about state licensure/certification requirements

Bachelor of Fine Arts, Major in Animation with Teaching Certification (p. 161)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Graphic Design with Teaching Certification (p. 168)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Photography with Teaching Certification (p. 175)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Studio Art 2D Track with Teaching Certification (p. 183)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Fine Arts, Major in Studio Art 3D with Teaching Certification (p. 191)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

BFA, Major in Theatre with Teacher Certification (http://catalog.shsu.edu/colleges-academic-departments/arts-and-media/theatre-musical/bfa-theatre-with-teaching-certification/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: Choral (p. 291)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: Choral/Piano (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-choral-piano/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: Instrumental (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-instrumental/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music with Teaching Certification: String (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-with-teaching-certification-string/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Music, Major in Music Therapy (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/arts-and-media/music/bm-music-therapy/)

Certification
Meets: All states and territories
Does Not Meet: None
A Determination Has Not Yet Been Made: None

Bachelor of Business Administration, Major in Business Administration with PGM Concentration (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/business-administration/business-administration-and-entrepreneurship/bba-general-business-administration-pgm-concentration/)

Certification
Meets: All states and territories
Does Not Meet: None
A Determination Has Not Yet Been Made: None

Undergraduate Programs

Bachelor of Science, Major in Education, EC-6 Core (p. 507)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Core: 4+1 MED in Teaching & Learning (p. 510)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Bilingual Core (p. 515)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Bilingual Core: 4+1 MED in Teaching & Learning (p. 518)

Certification

Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 Special Education Core (p. 523)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, EC-6 SPED Core: 4+1 MED in Teaching & Learning (p. 526)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 Core (p. 532)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Core, 4+1 MED in Teaching & Learning (p. 535)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 ELAR (p. 540)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 ELAR: 4+1 MED in Teaching & Learning (p. 543)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 Mathematics (p. 548)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Mathematics: 4+1 MED in Teaching & Learning (p. 551)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education: 4-8 Science (p. 556)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Science: 4+1 MED in Teaching & Learning (p. 559)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Social Studies (p. 564)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, 4-8 Social Studies: 4+1 MED in Teaching & Learning (p. 567)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3 (p. 572)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3: 4+1 MED in Teaching & Learning (p. 574)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3 Bilingual (p. 579)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Education, PK-3 Special Education (p. 583)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Double Major in Education and English (p. 590)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Double Major in Education and Mass Communication: Journalism (p. 592)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Double Major in Education and Spanish (p. 595)

Certification
Meets: Only Texas

Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Composite Science (p. 597)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and History (p. 602)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Interdisciplinary Agriculture (p. 607)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Kinesiology (p. 611)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Double Major in Education and Mathematics (p. 615)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Graduate Programs

Master of Arts in Applied Behavior Analysis (p. 1589)

Licensure
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Certification
Meets: All states
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All territories

Master of Education in Literacy Instruction (p. 1592) (only with Texas Reading Specialist)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Master of Education in Teaching and Learning (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/teaching-and-learning-med/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Master of Library Science (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/library-science-and-technology/library-science-mls/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Graduate Certificate in Bilingual (Spanish) Educational Diagnostician (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/bilingual-spanish-educational-diagnostician-certificate/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Educational Diagnostician Certification (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/educational-diagnostician-certification/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Reading Specialist Certification (Post Graduate) (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/reading-specialist-certification/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

School Librarian Certification (https://catalog.shsu.edu/graduate-and-professional/college-departments/education/library-science-and-technology/school-librarian-certification/)

Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Teacher Certification (p. 1610)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Arts, Major in Interior Design (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/ba-interior-design/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

Bachelor of Science, Major in Food Science and Nutrition (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/bs-food-science-nutrition/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

NOTE: Completing an ACEND-accredited bachelor's program alone is not sufficient to qualify an individual for licensure or certification as a dietitian in any state. In addition to earning a bachelor's degree and meeting other state-specified requirements, individuals must also complete a supervised practice experience and pass a licensing exam. Consistent with current requirements of the Registered Dietitian credential, some states may also

require initial dietitian licensure applicants to hold a master's degree. Statutes, regulations and policies of state licensing agencies are subject to change; this information only reflects published statutes and regulations as of July 1, 2024. Individuals should review their state's licensing statutes and regulations to understand the specific requirements to obtain a dietetics or dietitian license. More information about state licensure and certification can be found at this link: State Licensure (https://www.cdrnet.org/LicensureMap/).

Bachelor of Science, Major in Health Sciences: 3+2 Master of Science in Athletic Training (MSAT) (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/public-health/bs-health-sciences-and-msat-athletic-training/)

Licensure/Certification
Meets: All states and territories
Does Not Meet: None
A Determination Has Not Yet Been Made: None

Bachelor of Science, Major in Interior Design (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/bs-interior-design/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

Bachelor of Science, Major in Nursing (BSN) (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/nursing/bsn-nursing/)

Licensure
Meets: All states, excluding American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands

LVN to BSN (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/nursing/lvn-bsn/)

Licensure
Meets: All states, excluding American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Northern Mariana Islands, Puerto Rico, and Virgin Islands

Graduate Programs

Master of Science in Dietetics (https://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/human-sciences/dietetics-ms/)

Licensure/Certification
Meets: All states, excluding American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
Does Not Meet: N/A
A Determination Has Not Yet Been Made: American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands

NOTE: Completing an ACEND-accredited academic program alone does not qualify an individual for licensure or certification as a dietitian in any state. Individuals should review their state's licensing statutes and regulations to understand the specific requirements, including supervised practice and examinations, needed to obtain a dietetics license. More information about state licensure and certification can be found at this link: State Licensure (https://www.cdrnet.org/LicensureMap/).

Undergraduate Programs

Bachelor of Arts, Double Major in Education and Spanish (https://catalog.shsu.edu/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/bs-education-and-spanish/)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Graduate Programs

Doctor of Philosophy in Clinical Psychology (https://catalog.shsu.edu/graduate-and-professional/college-departments/humanities-social-sciences/psychology-philosophy/clinical-psychology-phd/)

Licensure

Meets: All states, excluding California, Michigan, New Jersey, and New York
Does Not Meet: California, Michigan, New Jersey, and New York
A Determination Has Not Yet Been Made: N/A

Master of Arts in Clinical Psychology (https://catalog.shsu.edu/graduate-and-professional/college-departments/humanities-social-sciences/psychology-philosophy/clinical-psychology-ma/)

Licensure
Meets: All states, excluding California, Michigan, New Jersey, and New York
Does Not Meet: California, Michigan, New Jersey, and New York
A Determination Has Not Yet Been Made: N/A

Specialist Degree in School Psychology (https://catalog.shsu.edu/graduate-and-professional/college-departments/humanities-social-sciences/psychology-philosophy/specialist-dgree-school-psychology/)

Licensure
Meets: All states, excluding California, Michigan, New Jersey, and New York
Does Not Meet: California, Michigan, New Jersey, and New York
A Determination Has Not Yet Been Made: N/A

Doctor of Osteopathic Medicine (https://catalog.shsu.edu/graduate-and-professional/college-departments/osteopathic-medicine/osteopathic-medicine-do/)

Licensure/Certification
Meets: All states and territories
Does Not Meet: N/A
A Determination Has Not Yet Been Made: N/A

Doctor of Osteopathic Medicine and Master of Public Health (https://catalog.shsu.edu/graduate-and-professional/dual-degrees/do-osteopathic-medicine-and-mph-public-health/)

Licensure/Certification
Meets: All states and territories
Does Not Meet: N/A
A Determination Has Not Yet Been Made: N/A

Bachelor of Science, Major in Agricultural Business with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-business-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-agricultural-engineering-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Animal Science with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-animal-science-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A
A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Bachelor of Science, Major in Plant and Soil with Teaching Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/bs-plant-soil-sciences-with-teaching-certification/#text)

Certification
Meets: Only Texas
Does Not Meet: N/A

A Determination Has Not Yet Been Made: All states and territories, excluding Texas

Support Services

- Academic Success Center (p. 1433)
- Advising (Student Advising and Mentoring Center) (p. 1433)
- Data Analytics and Decision Support (DADS) (p. 1433)
- IT@SAM (p. 1435)
- Library, Newton Gresham (p. 1434)
- Mathematics Tutoring Center (p.)
- Reading Center (p.)
- SHSU Online (p. 1434)
- Testing Center (p.)
- Alumni Relations and Development (p. 1439)
- Athletics (p. 1440)
- Bearkat OneCard Services (p. 1441)
- Campus Recreation (p. 1446)
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- Counseling Center (p. 1442)
- Dean of Students' Office (p. 1443)
- First-Generation Center (http://catalog.shsu.edu/shared/first-generation-center/)
- Global Engagement Center (p. 1443)
- Health Center (p. 1443)
- James and Nancy Gaetner Performing Arts Center (p. 1444)
- Lowman Student Center & Student Activities (p. 1445)
- Memorial Museum, Sam Houston (p. 1445)
- Print Services (p. 1446)
- Public Safety Services, University Police, and Safety Office (p. 1446)
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Academic Support Services

- Academic Success Center (p. 1433)
- Advising (Student Advising and Mentoring Center) (p. 1433)
- Data Analytics and Decision Support (DADS) (p. 1433)
- Library, Newton Gresham (p. 1434)
- SHSU Online (p. 1434)
- Technology Solutions and Support (http://catalog.shsu.edu/graduate-and-professional/support-services/academic-support-services/#it-sam)
- Testing Center (p. 1435)

Academic Success Center

The Academic Success Center offers a variety of academic support programs for SHSU students. These services include CRLA-certified peer tutoring programs for writing, math, core science, business, world languages, and more.

The ASC provides writing, reading, and world language support offering one-on-one 30-minute and 60-minute sessions. Small group sessions can also be an option pending class session and instructor. The overall goal is to help individuals become more successful, more confident writers and learners. Students may seek writing assistance ranging from freshman essays to theses and dissertations. In addition, our STEM tutoring program provides one-on-one and small group assistance for students seeking support in math, statistics, and a variety of sciences. The ASC offers study groups in math and chemistry. Also, the ASC has embedded tutors that support students within selected courses and provide feedback to instructors on learning challenges that students may face.

The ASC offers Learning Coaches to help students balance the demands of college by guiding students through areas such as accountability, time management, study skills, note taking, test preparation, and goal setting. Our Recovery Coaches work with students on first-time academic probation or students on first-time academic suspension. Students on probation will learn academic recovery strategies and methods related to university policies, resources, communication techniques, wellness, and setting. Students on academic suspension are guided to get back to good academic standing by constructing a recovery plan that includes forming connections with instructors, reaching goals, and identifying and utilizing campus resources.

The ASC also offers workshops and seminars for academic success or academic recovery facilitated by learning coaches, recovery coaches, and professional staff.

ASC services are available for all undergraduate and graduate students currently enrolled in SHSU. Services are available in-person and virtually on main campus and at The Woodlands Center. On the main campus, the Academic Success Center (http://www.shsu.edu/centers/academic-success-center/) is located in the Newton Gresham Library. The ASC can be contacted by calling (936) 294-3680.

Advising (Student Advising and Mentoring Center)

At the Student Advising and Mentoring Center (SAM Center), we value each student as an individual and believe that advising is a shared responsibility with the student.

Our professional advisors are highly skilled experts in student development and degree planning, and we strive to provide students with personalized, holistic, success-based academic advising and support. We strongly believe in the importance of academic advising in student achievement, retention, and degree completion.

Whether you are an entering freshman, returning student, transfer student, prospective student, or a current undergraduate student, you can expect to learn about campus processes, be directed to beneficial resources for your success, and work with advisors on major exploration along with course planning to build the best university experience possible for you.

The SAM Center is located on the Huntsville campus on the first floor, Suites 170 and 190, of the College of Humanities and Social Sciences Building (CHSS). You can reach the SAM Center (samcenter@shsu.edu) by e-mailing or calling (936) 294-4444 or toll free at (866) 364-5211.

Not sure who your advisor is or how to make your appointment? Visit the SAM Center Website (https://www.shsu.edu/centers/sam-center/) to view Who is My Advisor (https://www.shsu.edu/centers/sam-center/whos-my-advisor/) and How to Get Advised (https://www.shsu.edu/centers/sam-center/how-do-i-get-advised/).

Data Analytics and Decision Support (DADS)

Data Analytics and Decision Support (DADS) is a Sam Houston State University administrative service and support unit aligned under Strategic Enrollment & Innovation (SEI). The unit is comprised of three areas: Institutional Research (IR), Data Analytics, and Data Literacy/Data Governance.

It is the mission of the **Data Analytics and Decision Support** function to collect, analyze, appraise, report and disseminate data on behalf of the University, its executive administration and its educational leaders for the purpose of promoting evidence-based reflection, planning, and action. The DADS team provides information and conducts research studies to comply with federal, state and other reporting mandates, and to assess policy,

programs and special initiatives. DADS is also responsible for certifying SHSU's official student data to the Texas Higher Education Coordinating Board (THECB).

To request assistance with obtaining data, access to existing reports, and information about external data resources, SHSU employees with network access may submit a work order request/request a report (https://cherwell.shsu.edu/CherwellPortal/Employee/?_=28a7b9fa#0). A data dictionary, Data Cookbook (https://shsu.datacookbook.com/), is available to individuals with SHSU network log in credentials to review descriptions of existing reports (specifications) and data terms (definitions). SHSU uses Cognos as the reporting tool, and links to the Cognos reports are included in Data Cookbook. Various reports require prior training and/or approval, and SHSU Cognos users are encouraged to read about these details in Data Cookbook. A Data Cookbook introductory tutorial (https://www.youtube.com/watch/?v=n8VowQurkWo) is available for additional assistance. Questions about Cognos and Data Cookbook can be directed to our staff (https://www.shsu.edu/dept/institutional-research/aboutus.html) or to SHSU Information Technology Service Desk (https://www.shsu.edu/dept/client-services/service-desk.html) personnel.

Newton Gresham Library

The Newton Gresham Library (NGL) contains more than 1.2 million print books, periodicals, audio and visual materials, and microforms. Students have access to over 800,000 eBooks, online journals and newspapers, as well as streaming media resources through the Library website.
The Library also acts as a Federal and State government documents depository, providing access to almost 200,000 print and online documents. The library maintains licenses to over 400 online databases (https://shsulibraryguides.org/az.php). Books, articles, documents, and other items which are not available locally may be requested via the Library's Interlibrary Loan service.

SHSU Special Collections in the Thomason Room on the Library's 4th floor holds over 22,000 rare books and research collections on Texas, the Southwest, American authors, the Civil War, Criminal Justice, and other topics. University Archives, also located on the 4th floor of the Library, preserves the history of the campus. The Newton Gresham Library's general collection includes popular and recreational reading materials, tabletop games, a children's literature collection, a music and scores collection, and materials to help teachers create lesson plans. Creative, research and study spaces at the Library include: a music listening room, 35 individual study carrels, eight technology equipped group study and seminar spaces, a video recording studio, a copy center (including faxing, poster printing, and more), as well as a lactation room, vending machines, outdoor seating, and a Starbucks--all provided for the convenience of students and faculty.

Twenty-one librarians, twenty-nine support staff, and scores of student assistants provide reference, interlibrary loan, circulation, acquisitions, and other library services to the faculty, staff, and students of the University as well as to visiting scholars and off-campus users. Distance Learners will find librarians embedded in their online classes.#A full-time librarian provides assistance to students at The Woodlands Center , and at the College of Osteopathic Medicine. A computer lab with over 75 networked workstations is available during regular library hours, and staffed by IT@Sam. To assist library users in utilizing library materials and services, librarians developedonline guides#available on the Library's website. Librarians also provide access to information and help in using the library's resources and services to students on- and off-campus with online chat (see Ask A Librarian (https://library.shsu.edu/) on the Library's homepage), e-mail, and by phone. Two active-learning spaces have been recently completed for use in library instructional sessions, and in support of other campus teaching and training activities. Finally, the Academic Success Center (ASC)#and the First-Generation Center (https://www.shsu.edu/dept/firstgen/) are located 2nd floor of the Library, providing academic coaching, First-Year experience, peer mentoring, and tutoring services for all students.

SHSU Online

SHSU Online

Welcome to Sam Houston State University, where online and hybrid education are part of a strategic priority. A large percentage of Bearkats participate every year in SHSU's online courses and programs and if you're one of them, we are glad you are here!

SHSU Online is a department within Academic Affairs that is dedicated to empowering learners, educators, and staff by facilitating exceptional online education experiences that extend beyond the boundaries of traditional classrooms. Our mission is to enable citizens in Texas and beyond to further their education, secure meaningful employment, achieve higher earnings, and enhance their quality of life. We support all course and program modalities, including 100% online courses, Online Live, Online On-Demand, Hybrids, and Face-to-Face courses that integrate online tools to enhance the delivery of on-ground education.

Through our strategic initiatives, SHSU Online strives to provide a unified presence for online education, fund essential tools, deliver high-quality course development and instructional design, and create inclusive and accessible learning environments. We are committed to supporting YOU and the entire SHSU community in our shared pursuit of educational excellence.

To that end, SHSU Online delivers a wide-range of services for SHSU faculty, students, and staff, including:

- 24/7 Technical Support Call Center for Blackboard courses
- Faculty Certification and Development
- Instructional Design and Couse Building
- Graphic Design
- Multimedia Design
- Digital Content Development

- Educational Video Production
- Guest Lecture Recordings
- Video Hosting
- Marketing and field video production for online programs
- Video transcriptions
- Ally® for Accessibility
- Thought-Leadership, including
  - SHSU Online Newsletter
  - TSUS Annual Report
  - TSUS Faculty Development Days
  - SHSU Online Annual Conference: Digital Education Summit

We hope to connect with you through one of our services or events!

SHSU Online also actively promotes success beyond the classroom by providing many SHSU students with opportunities to develop marketable skills. We hire, train, and prepare student workers with on-the-job training and market experience in various creative and technical fields.

Contact Information

- **Phone**: 936.294.2780
- **Email**: Blackboard@shsu.edu
- **Web**: online.shsu.edu (https://online.shsu.edu/)
- 24 hours a day / 7 days a week

Technology Solutions and Support

Information Technology maintains instructional environments, including computer labs and classrooms to support faculty and students in our Bearkat learning environments. These spaces are equipped with Windows and iMac computers, up-to-date software, webcams, printers, and scanners. Additionally, a few labs have course-specific software for students to complete work outside of the classroom. View the Computer Lab website (https://www.shsu.edu/computerlabs/) for a complete list of labs and their technology equipment.

Additionally, we provide Microsoft 365 for your personal devices and wireless internet through eduroam. Simply use your SHSU credentials to access either option!

For additional questions regarding the technology available at SHSU, contact the Service Desk (mailto:servicedesk@shsu.edu).

Contact Information

Phone: 936.294.1950

Email: Service Desk (servicedesk@shsu.edu)

Location: Academic Building I, Suite 145

Testing Center

The Sam Houston State University (SHSU) Testing Center provides institutional and national testing opportunities to students and community members in an atmosphere that enables examinees to perform to the best of their abilities. This atmosphere relies on test administration practices that (1) adhere to nationally recognized professional testing standards and government regulations, (2) maintain the integrity of the testing process by incorporating ethical standards and security measures, and (3) treat all examinees in a professional, yet personable manner. The Sam Houston State University Testing Center adheres to the National College Testing Association (NCTA) Professional Standards and Guidelines and currently offers the following exams unless noted otherwise:

Entrance Exams

ATI TEAS: The Test of Essential and Academic Skills (TEAS) is used as part of the admissions process by Nursing and Allied Health schools nationwide. Additional information may be obtained by visiting the Testing Center (http://www.shsu.edu/centers/testing-center/) or TEAS (http://www.atitesting.com/).

TOEFL: The Test of English as a Foreign Language (TOEFL) may be required of international students for admittance into the university. The TOEFL exam measures the ability of non-native English speakers to communicate in an academic setting. For more information, visit the Testing Center (https://www.shsu.edu/centers/testing-center/) or TOEFL (http://www.ets.org/toefl/). Additional information may also be obtained by contacting Admissions (http://www.shsu.edu/admissions/).

Placement Exams

ACCUPLACER: The ACCUPLACER test is a placement exam offered at SHSU for evaluating a student's performance in reading, writing, and mathematics. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or ACCUPLACER (https://accuplacer.collegeboard.org/students/).

ACCUPLACER - ESL: The ACCUPLACER English as a Second Language (ESL) test is designed to support the placement of English language learners into English language courses so that they may receive appropriate and targeted levels of instruction. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or ACCUPLACER (https://accuplacer.collegeboard.org/students/).

TSI ASSESSMENT 2.0: The Texas Success Initiative Assessment (TSIA2) is a placement exam offered at SHSU to assess test takers' readiness for college-level coursework in the general areas of English language arts and reading (ELAR) and mathematics. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/)or TSI Assessment (https://accuplacer.collegeboard.org/students/prepare-for-accuplacer/tsia-texas-success-initiative-assessment/).

Credit by Exam

ACT/SAT English Credit: Sam Houston State University may award credit for freshmen English courses based on high ACT or SAT test scores on the English section (ACT) or the Reading and Writing section (SAT). Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. The ACT and SAT exams are not offered at the Testing Center; however, policy information about the ACT/SAT English Credit can be located on the Testing Center website.

Advanced Placement Program (AP): Sam Houston State University may award college credit for the Advanced Placement Examinations based on the score(s) received. Advanced Placement exams are given at the high school level. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. AP exams are not offered at the Testing Center; however, policy information can be located on the Testing Center and AP Program websites.

Avant Assessments: Avant STAMP (STAndards-Based Measurement of Proficiency) measures language proficiency in Reading, Writing, Listening, and Speaking. Avant STAMP for American Sign Language (ASL) evaluates receptive skills (comprehension of signed ASL videos) and expressive skills (production of signed ASL). Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. For more information, visit the Testing Center (http://www.shsu.edu/testing/) or Avan (https://www.avantassessment.com/)t.

College Level Examination Program (CLEP): Sam Houston State University is a national testing center for the College Level Examination Program (CLEP). All CLEP exams may be taken at SHSU, but only the CLEP Subject Exams listed on the Testing Center website will be accepted for credit at SHSU. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. For more information, visit the Testing Center (http://www.shsu.edu/testing/) or CLEP (https://clep.collegeboard.org/).

DSST: Sam Houston State University is a national testing center for the DSST exams. All DSST exams may be taken at SHSU, but only the DSST exams listed on the Testing Center website will be accepted for credit at Sam Houston State University. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by examination will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. For more information, visit the Testing Center (http://www.shsu.edu/testing/) or DSST (http://getcollegecredit.com/).

International Baccalaureate Program (IB): Sam Houston State University recognizes the International Baccalaureate program and awards credit to those students who earn the IB diploma. Sam Houston State University has a policy of accepting up to a maximum of thirty (30) hours of credit through a combination of national standardized examinations and/or locally designed and administered departmental tests. More than thirty (30) hours of credit by exam will be considered on an individual appeal basis. Appeals can be requested through the Admissions Office. Information on the International Baccalaureate Program may be obtained from high school counselors or by visiting the Testing Center (http://www.shsu.edu/testing/) or International Baccalaureate (http://www.ibo.org/).

Departmental Exams

The American Council on the Teaching of Foreign Languages Oral Proficiency Interview-Computer (ACTFL OPIc): ACTFL OPIc tests are used worldwide by academic institutions, government agencies, and private corporations for purposes such as academic placement, student assessment, program evaluation, professional certification, hiring, and promotional qualifications. The ACTFL OPIc is a valid and reliable means of assessing how well a person speaks a language. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or

ACTFL (https://www.actfl.org/center-assessment-research-and-development/actfl-assessments/actfl-postsecondary-assessments/oral-proficiency-interview-computer-opic/).

Representative TExES: The Representative TExES tests are paper-pencil practice exams administered for the College of Education. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or by emailing edu_edprep@shsu.edu.

Graduate Exams

Graduate Management Admission Test (GMAT): The GMAT exam is designed to test skills that are highly important to business and management programs. It assesses quantitative reason, verbal reasoning, and data insight skills that are vital to real-world business and management success. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or GMAT (http://www.mba.com/us/).

Graduate Record Examinations (GRE): The GRE is used by graduate schools as one assessment indicator for comparing the qualifications of applicants who come from a variety of colleges and universities. The GRE measures verbal reasoning, quantitative reasoning, and analytical writing skills. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or GRE (https://www.ets.org/gre/).

Certification Exams

ACSM: American College of Sports Medicine offers several health fitness certification programs, each with unique programming and/or population focus. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or the American College of Sports Medicine (https://www.acsm.org/certification/get-certified/).

CERTIPORT: Certiport is dedicated to helping people succeed through certification. Certiport's globally recognized credentials are aimed at enhancing individual productivity, marketability, and value. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or Certiport. (http://www.certiport.com/)

CCE: The Center for Credentialing and Education offers a dynamic portfolio of services including credentials, assessments, and examination services to promote excellence in and expand equitable access to mental health and human development professions. The CCE offers the CPCE (Counselor Preparation Comprehensive Exam) and the NCE (National Counselor Exam) tests. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or CCE. (https://www.cce-global.org/home/)

CompTIA: CompTIA certifications are industry-leading credentials to start and grow an IT career. Entry-level IT certifications and advanced IT certifications -- such as cybersecurity -- are offered. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or CompTIA (https://www.comptia.org/certifications/4-steps-to-certification/).

Meazure Learning: Meazure Learning offers exams for the certification or licensure of professionals to assess the knowledge and skills of employees for training purposes or as a pre-employment check for potential hires. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or Meazure Learning (http://www.meazurelearning.com).

NSCA: Elevate your career in strength and conditioning and related sports science professions to new heights with a National Strength and Conditioning Association certification. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or NSCA (https://www.nsca.com/certification-overview/).

TCEQ: The SHSU Testing Center is a testing site for the Texas Commission on Environmental Quality (TCEQ) Occupational Licensing examinations. Additional information about TCEQ exams can be obtained by visiting the Testing Center (http://www.shsu.edu/centers/testing-center/)or TCEQ. (https://www.tceq.texas.gov/)

TCFP: The Texas Commission on Fire Protection offers certifications for those interested in becoming certified fire protection professionals. Additional information may be obtained by visiting the Testing Center (https://www.shsu.edu/centers/testing-center/) or TCFP. (https://www.tcfp.texas.gov/services/certifications/)

TExES: The Texas Administrative Code (TAC) §230.21(a) mandates that all individuals seeking educator certification in the state of Texas must achieve satisfactory performance on comprehensive examinations. These assessments are designed to ensure that each educator possesses the essential content knowledge and professional expertise requisite for an entry-level position within Texas public schools. The Texas Examinations of Educator Standards (TExES) program was established to fulfill this objective. Additional information may be obtained by visiting the Testing Center (http://www.shsu.edu/testing/)or TExES. (http://tx.nesinc.com/)

State of Texas High School Diploma Test

The General Educational Development (**GED**) test is a suite of exams that test-takers can pass to earn a GED diploma/certificate. The GED provides adults with high school equivalency exams that are based on current career and college-readiness standards. The SHSU Testing Center is an authorized testing site for the GED exam. Additional information may be obtained by visiting GED (https://www.ged.com/).

Distance Education Exams

Sam Houston State University Testing Center provides proctoring services for distance education exams from other institutions and agencies. Additional information may be obtained by visiting the Testing Center (http://www.shsu.edu/testing/).

Student Support Services

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Alumni Relations and Development

The **SHSU Alumni Association** exists to support and promote the University and represent the interest of over 140,000 alumni and friends. The alumni association is an important part of an integrated advancement effort to communicate with graduates and former students and engage them with the university.

Located in the John R. Ragsdale Alumni Center, the role of the Alumni Association has expanded significantly, becoming an integral part of the University campus community while serving as a bridge to both local and national communities. The Alumni Association's programs and activities are developed and planned in consultation with an alumni association board of directors.

The Association sponsors the annual Distinguished Alumni Gala for Distinguished Alumni, Outstanding Young Alumni and Service Award recipients, the annual Life Member Celebration, Homecoming activities, tailgate parties, regional alumni clubs and gatherings, newsletters, scholarships, student programs, and the official university class ring program. It provides opportunities for alumni to participate in community service projects, raising scholarship funds, legislative advocacy, and joining with other graduates in alumni activities across the country.

Alumni Association Life Membership is open to all graduates, former students, parents, faculty, staff, and friends of Sam Houston State. For additional information, please call (936) 294-1841 or visit Alumni Association (http://www.shsu.edu/dept/university-advancement/).

SHSU has honored its historical roots by providing students with an excellent education. We continue to be able to do this thanks to the financial support of alumni, friends, faculty and staff, parents, corporations, and foundations who are part of SHSU's powerful giving community. Gifts help bridge the gap between education costs and tuition income so that we can meet critical needs such as student scholarships, equipment, technology, and academic program enrichment.

Donors may make a gift online at SHSU Giving (https://www.shsu.edu/dept/university-advancement/donate.html). For information about providing support for the University through an annual, major, or planned gift, please contact:

University Advancement
Box 2537
Huntsville, TX 77341-2537
(936) 294-3625

Athletics

Competing at a high level in 18 NCAA Division I sports, Sam Houston State University brings the fun and excitement of intercollegiate athletics to the Huntsville campus.

The Bearkats have become a fixture on national television sports networks such as ESPN, ESPN2, and CBS Sports Network.

Sam Houston competes as a member of Conference USA, joining the league and moving up to the FBS level in 2023 after claiming the FCS National title on the gridiron in 2020. In SHSU's first year in CUSA, the Kats claimed the league's men's basketball and women's golf crowns. A year later, the Kats made their mark known in football, winning 10 games and the program's first bowl victory, taking down Georgia Southern in the 2024 R+L Carriers New Orleans Bowl.

Sam Houston has had plenty of success across the board in its time at the Division I level, winning the 2004 national title in bowling in 2014, while the baseball team has made three NCAA regionals since 2016, including advancing to the program's first-ever Super Regional in 2017. The baseball team has continued to be recognized as one of the best mid-major programs in the nation and has even recently boasted two MLB first-round draft picks with Colton Cowser selected No. 5 overall by Baltimore in 2021 and Walker Janek chosen by the Astros in the first round of the 2024 MLB Draft.

Each of the past six seasons, Sam Houston and Stephen F. Austin have played their annual "Battle of the Piney Woods" rivalry game at NRG Stadium in Houston, putting more than 25,000 fans in the seats at the NFL Texans' venue annually.

Men's intercollegiate sports at Sam Houston include baseball, basketball, cross country, football, golf, indoor track and field, and outdoor track and field. Women's sports are beach volleyball, basketball, bowling, cross country, golf, indoor track and field, outdoor track and field, soccer, softball, tennis, and volleyball.

Sam Houston student-athletes are just as successful in the classroom as on the playing field. The overall grade point average for the more than 400 Bearkat student-athletes is a mark higher than the general student population at the university.

Bearkats have been recognized as the outstanding student-athlete in their individual sports by receiving the Southland “Student-Athlete of the Year” award 26 times in the past 12 years.

Sam Houston boasts one of the finest athletic complexes in the Southwest. Home athletic events are held at Elliott T. Bowers Stadium (football), Bernard G. Johnson Coliseum (basketball, volleyball), Don Sanders Stadium (baseball), Bearkat Softball Complex (softball), Chuck and Wanda Beckner Tennis Center (tennis), Joseph Pritchett Field (soccer), and the Ron Randleman Strength and Fitness Center.

Recent additions to the athletic facilities include the major renovations of Mafrige Fieldhouse, the building of the Steele Golf Center, and the opening of the Beckner Tennis Center in the Fall of 2023. Bowers Stadium is also set to undergo its largest renovation since its opening in 1986 with a new west side press box scheduled to be completed by the beginning of the 2026 season. Each of the athletic venues is located on campus within walking distance of any of the residence halls.

Sam Houston students are admitted to all home regular season athletic events upon presentation of a current and valid Bearkat OneCard. Simply swipe your Bearkat OneCard at the designated student gates the day of the event for admission. Bearkat OneCards must be active, and students must be currently enrolled.

News, schedules, ticket information, and opportunities to watch live video of Bearkat sports events are available at SHSU Athletics (https://gobearkats.com/).

Bearkat OneCard Services

The Bearkat OneCard is the official ID card of Sam Houston State University. The OneCard is an all-in-one student ID which has been designed to be an efficient, multi-purpose card. It provides students easy access to University facilities and services. To ensure campus security, it is required that all students obtain a Bearkat OneCard for campus identification.

The Bearkat OneCard is required for:

- Meal Plans
- Bearkat Bucks (on-campus dining dollars)
- Assigned Residence Hall
- Entrance to Athletic Events
- University Sponsored Functions
- Recreational Sports Facility
- Kat Klub
- Newton Gresham Library Services
- Managing Refund Preferences
- Managing Student Payroll Preferences
- Bearkat Course
- Student Health Center
- Student Account Services (Bearkat OneCard and Cashiering Services)
- Financial Aid Office
- SAM Center (Student Advising)
- Career Services
- Campus Departmental Identification

To obtain a Bearkat OneCard students MUST:

- Have a photo taken in the Bearkat OneCard Office or request your OneCard (https://www.shsu.edu/dept/bearkatone/) online. It is mandatory to present a valid state or government issued photo ID in order to request a Bearkat OneCard.
- Have a valid and current domestic address on file with the University.
- Be currently registered for classes.

Once these steps have been completed, the Bearkat OneCard can be requested by the student. Upon receipt, the student must setup a refund preference at Bearkat OneCard (https://bearkatone.vibeaccount.com/). Students will select a refund and payroll preference online. Students have the following options for receiving refunds and payroll:

- Electronic deposit to an existing checking or savings account
- Electronic deposit to the VibeAccount

Note – Refund and Payroll preferences may be different.

The VibeAccount is an optional, internet-only, FDIC-insured checking account. Students may choose to open the VibeAccount; however, students are not required to open this optional account. Please, visit Account Fee Schedule (https://bearkatone.vibeaccount.com/studentaccount/feeschedules.do) for more information related to the terms and conditions of this account.

Student Account Services (SAS) provides assistance taking ID photos, activating cards, and providing information related to student refund and payroll disbursements. SAS also provides passport photos, specialty badges/credentials as well as assists with event tracking for campus events. Passport photos are provided to faculty, staff and students free of charge. For more information, please visit our office in the Estill Building, Suite 103, contact us by phone at (936) 294-2273, or visit Bearkat OneCard Services (https://www.shsu.edu/dept/bearkatone/).

Career Services

The Career Success Center Mission: *Preparing students for the career of their choice.*

The Career Success Center Vision: *Collaborating for Career Readiness & Connecting Students to Careers.*

The Career Success Center assists students, graduates, and alumni in their search for employment based on their interests, skills, academic preparation, and personal aspirations. Opportunities and resources are provided to assist students in learning about and developing career readiness and ultimately obtaining a rewarding career.

Specific services and resources include:

- BEARKATS GET HIRED (https://www.shsu.edu/dept/career-success-center/bearkatsgethired.html) for Student Employment, Internships, Part-time and Full-time Job Postings
- Career Exploration & Planning
- Career Readiness Roadmap
- Career/Internship Fairs
- Résumé & Cover Letter Writing Assistance
- Mock Job & Internship Interviews
- Networking/Employer Information Resources
- LinkedIn Profile Assistance
- Professional Headshots
- Career-Related Workshops/Panels
- Campus Interviews with Company Recruiters
- Reba Bock Career Closet

The Career Success Center is located in the Academic Building IV, Suite 210. You can contact the Career Success Center by calling (936) 294-1713, emailing (careersuccesscenter@shsu.edu) us or by visiting our website: Career S (https://www.shsu.edu/dept/career-success-center/)uccess Center (https://www.shsu.edu/dept/career-success-center/).

Counseling Center

Counseling Services

The SHSU Counseling Center provides individual, couples, and group therapy to students who are currently enrolled. Our mission is to provide service within the university environment that contributes to the academic success, personal growth, and positive social contribution of Sam Houston State University students. We embrace a student-oriented philosophy and we are committed to the development of the student as a whole person.

To participate in Counseling Center services you must be a currently registered student. A registered student can initiate services via phone or by walking into the office anytime between 8:30am-11am and 1pm-3:30pm. No appointment is needed for this initial appointment. During this initial 20 minute screening students will have an opportunity to discuss their presenting concerns and the clinician will match them to an appropriate counseling center service.

The SHSU Counseling Center offers a number of different options to help students enhance their well-being. Your clinician believes that some of these options may be especially helpful in meeting your own goals.

Your clinician may recommend one or more of the following service modalities:

Workshops (https://www.shsu.edu/dept/counseling/c-o-p-e-workshops.html) – Workshops are tailored to address common concern of college students. Workshops are conduced year round on stress management, anxiety, mood management, relationship success, better sleep, mindfulness and general adjustment. Workshops are offered at various times throughout the semester and require no advance registration.

Group (https://www.shsu.edu/dept/counseling/group-counseling.html) - Group therapy offers a unique opportunity to build community, explore your needs, share your experiences, offer support to others, and develop strategies to combat many different problems.

After Hours Helpline - Students can seek after hours support by speaking to one of our trained volunteers on our after hours Helpline at 936-294-4111, M-Th, 4-9pm during fall and spring semesters.

Brief One on One Counseling

Single Session – Single sessions are designed to address specific concerns in one single session. These sessions are designed to be goal oriented and solution focused.

Individual Counseling (https://www.shsu.edu/dept/counseling/individual-therapy.html) & Couples Counseling (https://www.shsu.edu/dept/counseling/couples-counseling.html) – Brief counseling sessions (45-50 minutes) provides an opportunity to work collaboratively with a clinician toward resolving matters that are systemic in nature. Counseling sessions are scheduled at various intervals (weekly, bi-weekly, monthly) based on treatment goals.

Consultation – Consultation provides an opportunity to address unique concerns related to treatment, referral, and access to resources. Consultation is a useful way to gather information and formulate next steps toward reaching one's goals. Consultation may also be used to explore ways one might be supportive to a friend or member of the university community in need of mental health services.

Case Management & Referral – Case management services can assist students who need assistance connecting with outside providers and students who need help navigating community resources.

Virtual Health Services - SHSU Counseling Center is now partnered with Timely Care to deliver a new virtual health and well-being platform for students. Through either a mobile app or your desktop, Timely Care provides 24/7 access to virtual care at no cost! Visit timelycare.com/SHSU (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Ft.e2ma.net%2Fclick%2Fxbbisj%2Fxfurfol%2Fppgdoy&data=05%7C01%7Csys003%40shsu.edu%7C35f37c34f8e344a2632e08dbe14abd96%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C638351483351532652%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=cvxz7p3Xfb5yek5WdPUX2dPjoWHegy%2B98vJG2owwniw%3D&reserved=0) or download the TimelyCare app from your app store and register with your school email address. You can then start visits from any web-enabled device – smartphone, tablet, laptop, or desktop.

The Counseling Center is located on the second floor of the Powell Student Health and Counseling Center, conveniently located next to Old Main Market. Visit or call (936) 294-1720. The Counseling Center is open Monday through Friday between 8:00 a.m. and 5:00 p.m., with additional evening hours during the Fall and Spring semesters. For more information, visit the Counseling Center's website (http://www.shsu.edu/dept/counseling/).

Dean of Students' Office

The Dean of Students' Office provides premier student and family support services and programs with a focus on student success, access, engagement, and retention. Through restorative practices, our department provides holistic student support, as well as opportunities for leadership, development, and community engagement. Our parent programs support parents, families, and supporters of students by building community, parent connection and engagement, and scholarship opportunities. To provide a safe community experience each student is responsible for compliance with the Student Code of Conduct (https://www.shsu.edu/dept/dean-of-students/student-code-of-conduct.html).

Contact Information:
Location: Lowman Student Center, Suite 210
Phone: 936-294-1785
Email: doso@shsu.edu
Web: shsu.edu/doso (https://www.shsu.edu/dept/dean-of-students/)

Global Engagement Center

The Global Engagement Center (GEC) promotes and coordinates international activities at Sam Houston State University, including the recruitment and retention of international students and study and travel abroad of SHSU students, faculty, and staff. GEC is the primary contact for F-1 international students, J-1 exchange students, and J-1 research scholars at SHSU, and the staff provides assistance and information to international visitors.

GEC staff assists with immigration rules and regulations for international students, faculty, and staff. GEC also provides various support services for international students and visitors, such as initial airport pick-up, cultural events, and activities both on campus and off campus. SHSU has an active International Student Organization with both international and domestic student members.

Sam Houston State University offers opportunities for study abroad exchange programs and faculty-led programs in numerous countries across the globe. With over 330 programs in over 50 destinations, students have the opportunity to cater to their academic and professional interests based on location, curriculum, or both.

SHSU is also a member of the National Student Exchange (NSE). NSE provides accessible collegiate study away to undergraduate students at over 170 member institutions in the United States, Canada, Guam, Puerto Rico, and the U.S. Virgin Islands. GEC staff work with SHSU students applying for competitive honors and awards from around the globe. Scholarships are available for those who qualify, and we offer information sessions for many scholarships and provide one-on-one help throughout the application process.

Visit or call the GEC (https://www.shsu.edu/dept/global-engagement/)in Farrington Building, Room 116, telephone (936) 294-4737.

Mail address:
Global Engagement Center
1908 Avenue J (SHSU Box 2150)
Sam Houston State University
Huntsville, TX 77341-2150

Health Center

Student Health Services at SHSU are comprised of the Student Health Center and the Student Wellness Office.

The Student Health Center, located at the corner of Avenue J and Bearkat Boulevard, provides comprehensive medical services, health education, and health-related events to currently enrolled students. The Health Center is open from 8:00 a.m. to 5:00 p.m., Monday through Friday for the full Fall, Spring, and Summer semesters. We are closed on official University holidays.

The Health Center is a primary care medical office for SHSU students that provides office visits for routine illness and minor injuries, gender-specific care, sexual health services, immunizations, and pre-participation physicals. The center also has laboratory services and over-the-counter items available.

The cost of office visits (seeing a medical provider and/or nurse) is covered by the Medical Service Fee paid each semester as part of the tuition and fees. This fee allows a student to schedule as often as needed throughout that semester for medical services available at the Health Center. Any additional fees for laboratory tests, medications, minor procedures, and supplies will be charged to the student's cashiers office account. Charges are expected to be paid once posted. These charges are at discounted rates. The Student Health Center does not bill any medical insurance policies except the policy provided for purchase through SHSU, Academic Health Plans.

Medical staff at the Health Center is comprised of medical doctors, nurse practitioners, physician assistants, registered nurses, licensed vocational nurses, medical assistants, nursing assistants, and a dedicated front office staff.

The Health Center prides itself in its continued accreditation by the Accreditation Association for Ambulatory Health Care (AAAHC). Accreditation means that the clinic's operations meet or exceed rigorous standards of quality compared to other primary care offices across the nation.

In the case of on-campus medical emergencies, Emergency Medical Services (EMS) 911 should be called.

Please visit the Health Center (https://www.shsu.edu/dept/student-health-center/) website for more information on our services. You can also find the link to your Patient Portal on our webpage which allows you to schedule appointments online, receive testing results and messages from your medical providers, and submit forms to the Student Health Center. If you would like to learn more about our student wellness office and health education services, please visit our Student Wellness (https://www.shsu.edu/dept/student-health-center/health-promotion/) page or follow us on social media pages: @shsuwellness and @shsushc

Please call (936) 294-1805 for any additional information about Student Health Center services. Our team looks forward to serving you as we carry out our mission to keep you healthy and support your academic success!

James and Nancy Gaertner Performing Arts Center

Opened in fall 2010, the Gaertner Performing Arts Center is a showcase for artistic talent and creative works, serving the community and the region. It serves as a world-class academic facility for students in the College of Arts & Media.

James and Nancy Gaertner Performing Arts Center Features

- 800-seat concert hall
- 175-seat recital hall
- 150-seat dance theatre
- Outdoor performance space
- Dance studios
- Practice rooms
- Dressing rooms
- Audition areas
- Scene shop for set construction
- Costume shop
- More than 90,000 square feet of total space

Public Art in the James and Nancy Gaertner Performing Arts Center

The central lobby of the Gaertner Performing Arts Center showcases original public art by internationally known artists and sculptors. Seven installations were commissioned for the building by Joe Akers, Kathleen Ash, Rebecca Finley, Jason Lawson, Jesús Morales, and Tim Prentice and Charles Pebworth.

Events in the James and Nancy Gaertner Performing Arts Center

The extensive events calendar for this spectacular performance space and for the College of Arts and Media in general can be accessed at College of Arts & Media. (https://www.shsu.edu/academics/arts-and-media/news-and-events/events-and-ticket-information/)

Mailing Address:
College of Arts and Media
Sam Houston State University
PO Box 2209
Huntsville, TX 77341

Physical Address:
James and Nancy Gaertner Performing Arts Center

College of Arts and Media
1900 Avenue I; Suite 200
Huntsville, TX 77340

Lowman Student Center

Lowman Student Center

The Lowman Student Center (LSC) proudly serves as your "Living Room on Campus" by providing a safe, welcoming, and engaging environment. With recently expanded and renovated spaces, over 1 million students, faculty, staff, administrators, alumni, and guests frequent the LSC annually. The LSC is committed to providing the university with services, conveniences, and amenities in an engaging and innovative environment.

Contact Information

LSC Office Main Number: 936.294.1759

LSC Information Center: 936.294.4902

LSC Kat Klub (game room): 936.294.3462

LSC Facebook, Instagram, Snapchat: @SHSULSC

LSC Office email: lsc@shsu.edu

LSC operational hours may be found on the Lowman Student Center (https://www.shsu.edu/dept/lowman-student-center/) website.

Services

The LSC is home to the Kat Klub (game room with bowling alley), University Bookstore, and Paw Print Food Court. Current LSC information can be found by visiting the Information Center.

Spaces

The LSC is a 225,000 sq. ft. facility, supported by state-of-the-art theatrical lighting and audio/video systems, that hosts over 8,000 events annually in the following spaces:

- **Orange Ballroom** (10,000 sq. ft.) and **White Ballroom** (8,000 sq. ft.) suitable for banquets, dances, concerts, conferences, and other large event gatherings.
- **Theater** space providing seating for 360 (plus 6 ADA) is ideal for lectures, video presentations, seminars, educational, and entertainment programs.
- **Conference Rooms** of varying sizes that can accommodate groups ranging from 12 to 200 people.
- **Kat Klub (game room)** offers bowling, billiards, table tennis, video games, a tavern, and several TV screens in a fun, friendly environment where students, faculty, staff, and guests can gather. Join us in the Kat Klub for relaxing, lounging, and gaming with friends!
- **Mother's Room** which features lockers for individual use, comfortable seating, hot and cold water, a baby changing station, cleaning supplies, dimmable lights, electrical outlets, a mini refrigerator for milk storage, and a secure, lockable door. See Information Center for access.

Museum, Sam Houston Memorial

The Sam Houston Memorial Museum, established in 1936 as a Texas centennial project, is an integral part of Sam Houston State University and is dedicated to preserving the memory of General Sam Houston (1793-1863). A soldier, statesman and politician, the only man to serve as governor of two states and president of an independent republic, Sam Houston led the fight for Texas' independence and then served Texas as President, U.S. Senator, and Governor. Located on fifteen acres, the museum complex preserves three fully furnished original Houston buildings - Woodland Home, Steamboat House, and Law Office - as well as a kitchen, blacksmith shop, and Guerrant, Roberts-Farris and Bear Bend log cabins.

The Memorial Museum Building houses the major collection of Houston memorabilia and exhibits. The Katy & E. Don Walker, Sr. Education Center is named for a distinguished alumnus of Sam Houston State University and his wife, and provides auditorium, classroom, and meeting spaces, including the W. S. Gibbs Conference Hall, as well as a gallery for traveling exhibits. The 'Wigwam Neosho,' the museum store and gift shop, is housed in a large log building on the Museum grounds. The museum offers many educational opportunities for Sam Houston State University students. These include semester- and year-long internships, with both undergraduate and graduate exploring a variety of museum study options. We also provide several part-time student jobs, tours, and research and writing programs using archives, manuscripts, and artifacts. Programs and lectures are held throughout the year. Classes as diverse as history, biology, political science, and art use the Museum and grounds as a laboratory, studio, and classroom.

In 2017, the 85th Legislature of the State of Texas approved a resolution for the creation of the Sam Houston Republic of Texas Presidential Library at Sam Houston State University. This resolution honors Sam Houston's contributions in shaping the state as well as his serving as the first and third

president of the Republic of Texas. In August of 2022, the Texas State University System Board of Regents approved the Sam Houston Memorial Museum to change its name to the Sam Houston Memorial Museum and Republic of Texas Presidential Library.

The museum complex is located at the corner of Sam Houston Avenue and 19th Street and can be reached by calling (936) 294-1832 or by visiting Sam Houston Memorial Museum (http://samhoustonmemorialmuseum.com/).

Print Services

Sam Houston Print Services is the University's in-house printing and copying facility. Copying, binding, faxing, and printing services are offered to students, student organizations, faculty, and departments at Sam Houston State University.

Sam Houston Print Services (https://www.shsu.edu/dept/marketing/press.html) is located at 1831 University Ave, on the first floor of the Thomason Building, Suite 101. The facility is open from 8:00 a.m. to 5:00 p.m., Monday through Friday. For information or to arrange an appointment for placing an order, please, call (936) 294-1856 or (936) 294-1768.

Public Safety Services, University Police, and Parking & Transportation Office

University Police Officers

University Police Officers are licensed peace officers as defined under the laws of the State of Texas and thereby have the authority of peace officers. Their primary jurisdiction, under H.B. 391, includes all counties in which property is owned, leased, rented, or otherwise under the control of Sam Houston State University.

The University Police Officers subscribe to the Law Enforcement Code of Ethics, a portion of which reads, "As a law enforcement officer, my fundamental duty is to serve mankind; to safeguard lives and property; to protect the innocent against deception, the weak against oppression or intimidation, and the peaceful against violence or disorder; and to respect the Constitutional rights of all citizens to liberty, equality, and justice." In this endeavor, the University Police earnestly solicit the support of the faculty/staff and students. Many officers are students thus providing a balance within Public Safety Services from a student's perspective.

In addition to University regulations, all the general and criminal laws of the State and the United States are declared to be in full force and effect within the properties of Sam Houston State University. All persons are responsible for compliance with these laws.

All thefts, vehicle accidents, or other criminal offenses that occur on campus should be reported immediately to the University Police. The Charles W. Tackett University Police Building is located at 2424 Sam Houston Avenue (Sam South Complex) —Telephone Number (936) 294-1800. Police Officers are on duty 24 hours every day. The business office hours are 7:30 a.m. until 4:30 p.m., Monday - Friday.

Campus Safety. Sam Houston State University offers a variety of services to promote a safe campus environment. The campus is equipped with emergency call boxes stationed at strategic locations throughout the campus to include parking lots, walkways, and residence halls. Additionally, the University Police provide staff to escort students not wishing to walk alone at night to and from campus buildings and parking lots. Students wishing to learn more about personal safety and self defense may take advantage of programs offered by the University Police Department. For more information, call (936) 294-1800 (Emergency 936-294-1000).

Emergency Management

The campus Emergency Management disseminates critical emergency response information that includes text messages, voice calls, emails, desktop alerts, social media messaging, and loudspeaker announcements. For preparedness, the campus maintains an emergency preparedness website and a cell phone/tablet application with essential training information in checklist form and situational videos for the campus community to include access for visitors on campus. This information is available at KatSafe (https://www.shsu.edu/katsafe/).

Parking & Transportation

Parking. Students, full - or part-time, who operate or expect to operate a motor vehicle, motor cycle, or motor-assisted cycle on University property, regularly or occasionally, are REQUIRED to register the vehicle with the Department of Public Safety Services and obtain an electronic parking permission assigning a designated area of parking. The University reserves the right to require proof of ownership of the vehicle being registered. Parking and Traffic Regulations and Information governing the operation of motor vehicles is issued via internet hyperlink at the time of the electronic parking permission purchase and is available for download or view from Parking and Transportation (https://www.shsu.edu/dept/public-safety/parktrans/). Failure to read the regulations is not an excuse for failure to comply with the university parking rules and regulations. Vehicles found in violation are subject to applicable fines as well as tow and impound.

Campus Recreation

CAMPUS RECREATION exists to make positive contributions to student **WELLBEING.**

We are **STUDENT DRIVEN** in our focus.

We practice **STEWARDSHIP** of the resources entrusted to us.

We strive to provide excellent **CUSTOMER EXPERIENCES** in our programs and facilities.

To see more about the Campus Recreation programs and services, view our orientation video here (https://youtu.be/RpkxCJuMakM/). You can also find more information by downloading the SHSU Rec Sports App through the Apple App Store (https://apps.apple.com/nz/app/shsu-recreational-sports/id1440068155/) or Google Play (https://play.google.com/store/apps/details/?id=com.innosoftfusiongo.samhouston&hl=en_US&gl=US).

Facilities

Facilities managed by the Department of Recreational Sports include:

- Campus Recreation (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html) Center
- McAdams Tennis Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Pritchett Field Sports Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Holleman Field Sports Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Intramural Sports Fields (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Sand Volleyball Courts (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- University Camp. (http://www.shsu.edu/dept/recreational-sports/facilities/university-camp/camp-facilities.html)

The Rec Center houses a 34' climbing wall, a 10,000 ft^2 weight room with a cardio area, several multipurpose rooms and fitness studios, and an outdoor heated swimming pool. New additions in 2023 include two multipurpose rooms, a functional training area, expanded cardio space, and a full-size competition gym. This expands upon the original four basketball courts, two multi-purpose rooms, a 1/8-mile indoor running track, nine racquetball courts, functional training area, and a supplemental weight room. Next to the Rec Center, there are three Intramural Sports Fields and two Sand Volleyball courts. Campus Recreation uses these facilities for Intramural Sports, Informal Recreation, and Special Events. Just up the hill is the McAdams Tennis Complex, an outdoor tennis venue with eight tennis courts. The Pritchett Field Sports Complex and Holleman Field, home to our Club Sports program, include two athletic fields (one grass and two turf) and an outdoor running track.

The University Camp (http://www.shsu.edu/dept/recreational-sports/facilities/university-camp/camp-facilities.html) is a one-of-a-kind recreation and retreat facility located 15 minutes northeast of campus. Booked through group reservations, members of the SHSU community can spend a day canoeing on the water, fishing, hiking, biking, challenging themselves on the low or high-ropes challenge courses, hosting a gathering in the dining hall and lodge, or just enjoying a picnic by the lake. Groups may also reserve cabins for overnight retreats.

Programming

As a student, you will enjoy the Informal Recreation (http://www.shsu.edu/dept/recreational-sports/)program by participating in self-directed activities such as drop-in basketball, weight-lifting, cardio, racquetball, or swimming. The Aquatics & Safety (http://www.shsu.edu/dept/recreational-sports/programs/aquatics-and-safety/aquatics-and-safety.html) program offers lifeguard and CPR classes, swimming lessons, and open swimming. The seasonally heated pool has four 25-yard lap lanes and a leisure area for water sports or merely relaxing in the sun. The Fitness Program (http://www.shsu.edu/dept/recreational-sports/programs/fitness/fitness.html) offers comprehensive wellness programming for the Bearkat community. Programs include group fitness classes, yoga, personal training, nutrition consultations, and instructor training. The Intramural and eSports (http://www.shsu.edu/dept/recreational-sports/programs/intramural-sports/intramural-sports.html) programs offer a variety of team, dual, and individual activities with both competitive and recreational divisions. The Club Sports (http://www.shsu.edu/dept/recreational-sports/programs/club-sports/club-sports.html) program comprises recognized student organizations established to promote and develop common sport- and/or recreation-related interests. Volunteer student leaders organize, administer, and compete in our active clubs. Outdoor Recreation (http://www.shsu.edu/dept/recreational-sports/programs/outdoor-recreation/outdoor-recreation.html) is a multifaceted program comprising six primary areas: Trips, Workshops, the Climbing Center and bouldering area, equipment rental (tents, sleeping bags, kayaks, etc.), Bearkat Camp (http://www.shsu.edu/dept/recreational-sports/programs/bearkat-camp/bearkat-camp.html) (a three-day experience for incoming freshmen and transfer students), and the 345-acre University Camp and retreat center. The department also provides many employment opportunities for students who are interested in part-time work. Campus Rec employs over 300 students (https://shsu.co1.qualtrics.com/jfe/form/SV_0052Qm8ghroUmQR/) annually in intramural officiating, facility supervision, aquatics, marketing, outdoor recreation, and fitness. For more information about any of these Campus Recreation activities, please, stop by the administrative offices on the second floor of the Campus Recreation Center, call (936) 294-1985, download the SHSU Rec Sports App, or visit the C (https://www.shsu.edu/dept/recreational-sports/)ampus Recreation website.

Residence Life

The Department of Residence Life operates a variety of residence halls, including apartments for upperclassmen. Upon acceptance to the University, all students who are required to live on-campus their first year will be mailed a housing brochure. This brochure provides many details of the residence life program at Sam Houston State University, including information regarding specific residence halls, applicable rates, and some policies. Students can also visit Residence Life (http://www.shsu.edu/%7Ehou_www/) or call (936) 294-1812.

A person may not live in University housing unless enrolled in classes at SHSU for each particular semester.

Housing applications may be made via the website once the student has been accepted to SHSU. A $50 non-refundable application fee is required. Assignments are made on a space-available basis according to the application fee received date. The housing contract will be in effect and must be adhered to for the full academic year.

Students may pay for housing in full at registration or in an installment arrangement, in accordance with the policies set forth by the University Cashier's Office.

University residence halls are closed during the academic breaks between semesters. Students who have a future reservation with SHSU may stay in the residence hall during these periods for an additional fee.

On-Campus Apartments

The University offers upperclassmen students the option to reside in apartments. There is a variety of options available, including single, double, and quad occupancy, 24-hour visitation, and pet-friendly options. All residents must be enrolled in the University. Students residing in University apartments through the academic year may stay during the Winter break for no extra fee.

First-year Students Required Housing And Meal Plan Policy

All students who have graduated from high school within the current or previous calendar year are required to reside in University housing and to purchase a meal plan for their first year, which will normally include the fall and spring semesters. For example, a May or June 2025 graduate will be required to reside on-campus Fall 2025 and Spring 2026 semesters. Anyone signing an academic year housing/meal plan contract will be required to fulfill the terms of that contract. Exceptions to the First-Year Required Housing and Meal Plan Policy may be made by the Department of Residence Life if:

1. residence in University housing will impose a significant hardship, financial or otherwise; or
2. the student is married and living with his/her spouse; or
3. the student commutes from the home of his/her parents, grandparents, or a brother or sister within a 60 mile radius from the SHSU campus; or
4. the student is a veteran of military service.

The student must provide documented evidence to warrant consideration for a waiver of this requirement. A denial of this request may be appealed to the Director for Residence Life Business Operations. Charges for both services will be added to the student's account until approval for the waiver is obtained. Any student who does not comply with the above policy will be subject to disciplinary action as specified by the Code of Student Conduct as published in *Student Guidelines*.

Default housing ($3,000 placeholder for rent charges) and Dining (All Access Plan) will be added to all students required to live on-campus for both Fall and Spring semesters. These charges will be removed with approved waiver or assignment to an on-campus booking. Waivers must be received by the 8th class day of the semester. Any waivers received after the 8th class day will only be reviewed in extenuating circumstances, and no request will be reviewed after the close of the requested semester.

Students may apply for an on-campus housing/dining waiver by accessing the Housing Portal in MySam Students tab. In the Housing Portal, students will locate Forms tab and choose "Request for Waiver of First-Year Housing Policy," complete all requested information and supply additional documentation as requested. Any student denied a waiver will have 10 business days to request an appeal.

Dining Service for Residential Students

All students (regardless of classification) who reside in the residence halls will be required to purchase a University Resident Meal Plan (All Access, 15 Meals per Week, 10 Meals per Week (*Sophomore status and above only). All of these meal plans include "Bearkat Bucks," which can be used in lieu of cash at any food related establishment on campus. Meal plan contracts are valid for the entire academic year. Rates and additional information are available from the Department of Residence Life. Students who reside in on-campus apartments are not required to purchase a Resident meal plan.

Dining Service for Non-Residential Students

Students who do not reside on campus have the option to purchase any meal plan available (All Access, 15 Meals per Week,10 Meals per Week (*Sophomore status and above only), 72 Meals per Semester (Bearkat Value Plan), 32 Meals per Semester (Bearkat Lite), or Bearkat Flex Plan. All of these meal plans include "Bearkat Bucks," which can be used in lieu of cash at any food related establishment on campus. Meal plan contracts are valid for the entire academic year. Rates and additional information are available from the Department of Residence Life.

Bearkat Bucks

Bearkat Bucks, welcome at any ARAMARK managed campus dining facility, is a declining balance account in which a minimum of $25 is deposited, and the cash price of food purchases are deducted from the balance. Money deposited in a students' Bearkat Bucks can be used in lieu of cash at any food related establishment on campus. All purchases are non-refundable and any unused Bearkat Bucks will be lost at the completion of the 2nd summer session.

Summer Housing

The buildings that are open for summer school housing vary from year to year because of renovation and maintenance schedules. Assignments are made according to application fee received date.

Services for Students with Disabilities

Services for Students with Disabilities (SSD) provides academic adjustments and auxiliary aids and services for students with documented mental or physical impairments that substantially limit one or more major life activities. To apply for services, students must register with SSD, participate in a disability intake, and submit current documentation from a qualified professional indicating the presence of a substantially limiting impairment. Accommodation decisions are made on a case-by-case basis, as supported by the student's documentation and educational needs. For additional information on the SSD documentation guidelines, procedures for requesting services, and adaptive technologies available on the SHSU campuses, students are encouraged to visit Services for Students with Disabilities (http://www.shsu.edu/dept/disability/) or to contact the SSD Office at telephone (936) 294-3512, TDD (936) 294-3786, or email Disabilities (disability@shsu.edu).

Student Money Management Center

Student Money Management (SMM) is a financial outreach and educational program administered by the Sam Houston State University Division for Strategic Enrollment & Innovation.

The mission of Student Money Management is to help Bearkats achieve financial independence.

The goals of Student Money Management are for students to:

- Learn how to identify and track expenses during and after college;
- Create a financial survival plan for college;
- Graduate with a plan for repaying student loans and personal debt;
- Locate external financial education resources;
- Talk to trained professionals about personal financial decisions and issues in a confidential and comfortable environment;
- Create a personalized budget for the upcoming semester or year at SHSU;
- Learn how to obtain, interpret and understand a personal credit report; and
- Understand employee benefit packages and retirement plans prior to accepting a career opportunity.

Student Money Management offers financial literacy outreach to students in the form of presentations and workshops on a number of financial literacy topics, including but not limited to:

- Budgeting & Saving
- Setting Financial Goals
- Credit
- Student Loan Repayment

Personal Coaching

Student Money Management also offers private, individualized, and **free** financial coaching sessions from certified professionals. Through this financial literacy resource, SHSU students can learn how to gain and maintain financial independence. Coaching sessions with full-time staff members are available by walk-in and appointments through Campus Connect.

For more information, visit Student Money Management (http://www.shsu.edu/dept/smmc/) or call 936-294-2600.

Students' Legal & Mediation Services

Mission

We serve currently-enrolled SHSU students by providing them with high-quality legal advice and equipping them with techniques to resolve disputes so they can focus on their educational goals**.**

Legal Services

Our attorneys (https://www.shsu.edu/dept/student-affairs/legal/slms-staff/) advise and counsel students on legal issues that they face. Meetings between a student and an attorney are confidential, as allowed by law. While our attorneys do not represent students in court, they help students better understand their legal issues, rights, and responsibilities, guide students through the legal procedures that they may face, and assist students in productively and proactively dealing with their legal situation.

Types of Legal Issues

Student Legal & Mediation Services can assist students with many types of legal issues, including, but not limited to:

- Rental Agreements and Issues with Landlords
- Contract Drafting and Review

- Background Reports
- Identity Theft
- Business Formation
- Traffic Tickets
- Wills and Powers of Attorney
- Divorces
- Name Changes
- Real Estate
- Demand Letters
- Consumer Protection
- Expunctions and Orders of Nondisclosure
- Copyright and Intellectual Property
- Debt Collection Practices
- Employment-related Issues
- Notary Services

Mediation & Conflict Resolution Training

Student Legal & Mediation Services also provides mediation services and conflict resolution training. When people are in a dispute, a neutral person—the mediator—can help the parties understand the cause of the dispute and help them develop creative solutions to resolve the dispute. Student Legal & Mediation Services has a trained mediator who helps students resolve their conflicts constructively, timely, and confidentially. We've helped students in roommate disputes, family conflicts, and disputes between groups.

Conflict Resolution Month takes place every October. Student Legal & Mediation Services brings world-class speakers to campus to help us understand causes of conflict and how to resolve conflicts peacefully and responsibly. Visit our website (https://www.shsu.edu/dept/student-affairs/legal/conflict-resolution-month/) for more information.

Cost

Because Student Legal & Mediation Services is supported by Student Service Fees, there is no cost for a consultation with the attorney or the mediator for currently-enrolled SHSU students who have paid the Student Service Fee.

Location & Making Appointments

Student Legal & Mediation Services is located in the Lowman Student Center (http://www.shsu.edu/dept/lowman-student-center/), Suite 327. Consultations are by appointment, either in-person, phone, or by video. Students may make an appointment by calling (936) 294-1717, online at Student Legal & Mediation Services (http://www.shsu.edu/dept/student-affairs/legal/), or through Campus Connect (https://www.shsu.edu/dept/student-success-technologies/campus-connect/).

Speaker for Student Groups

Student Legal & Mediation Services is also available to speak to SHSU student groups and organizations on legal and conflict resolution topics. Please call (936) 294-1717 to learn more about having us speak to your group.

Conflicts of Interest

Student Legal & Mediation Services is unable to offer legal advice in disputes between Sam Houston State University students or disputes between a student and the university, but our office can refer you to a private attorney.

Student Services, Division of

The role of the Division of Student Affairs is to complement the total educational mission of the University by providing opportunities for students to develop and grow in an academic environment. This is accomplished by offering quality programs and emphasizing the holistic approach in co-curriculum involvement. Studies indicate that learning occurs in an environment conducive to social, recreational, educational, and intellectual interaction. A variety of student service programs are designed to foster such interaction with students, faculty, staff, and the University community. The goal of the division is to contribute to the learning experiences of SHSU students, helping them to become educated, enlightened, and empowered in ways that they can achieve and contribute as productive citizens in their college, community, and country.

The Office of the Vice President for Student Affairs provides administrative leadership, supervision, and coordination for the Division of Student Affairs. The division includes the following departments: Campus Activities and Traditions, Counseling Center, Dean of Students' Office, Fraternity and Sorority Life, Lowman Student Center, Campus Recreation, Residence Life, Services for Students with Disabilities (SSD), Student Health Center,

Student Involvement: Leadership and Service, Student Legal and Mediation Services, and Student Wellness. For more information, visit the website at www.shsu.edu/student-affairs (https://www.shsu.edu/dept/student-affairs/contact.html).

Veterans Resource Center

To provide a comprehensive start to finish experience to military-affiliated students as they navigate through their academic journey at Sam Houston State University.
Our office is in Academic Building III, Suite 110.
Phone Number: 936.294.1046
Email: Veterans@shsu.edu

VetSuccess Counselor

SHSU houses one VA VetSuccess Counselor on its campus. If you are a veteran, active-duty military or an eligible family member who attends or plans to attend SHSU, please call or come by to meet with our VetSuccess on Campus Counselor.

SHSU VetSuccess on Campus counselor can help you:

- Manage your education benefits
- Explore vocations and select a suitable major/career
- Elect your healthcare benefits with Veterans Healthcare Administration
- Access, understand and apply for VA benefits (e.g., Disability Compensation, Life Insurance, Education, Home Loan Guaranty, and Veteran Readiness & Employment)
- Get referrals for medical and mental health care
- Get referrals for readjustment counseling services for eligible veterans and their families
- Coordinate with school faculty/staff to provide veteran-specific services (e.g., VA Certifying Official, Career Center, Student Disabilities Services, Counseling Center)
- Find job placement assistance and coordinate with Local Veterans' Employment Representatives (LVER) and Disabled Veterans' Outreach Programs (DVOP)
- Locate community and other resources

Your VetSuccess on Campus Counselor

Roberta Ardoin (roberta.ardoin@va.gov), MHS, CRC
936-294-2263
AB III Suite 110

Visitor Services

Located in the Visitor Center, the Sam Houston State University Visitor Services Department is the front door of the University. Visitors are encouraged to stop in to Visitor Services upon arrival to campus to get information to maximize their campus visit including directions, parking registration, and contact information. Please contact Visitor Services to:

- Schedule (https://www.shsu.edu/dept/visitors/) a tour of the campus
- Register (http://www.shsu.edu/saturday/) for a Saturday@Sam Campus Preview Day

Visitor Services is located at the Bowers Boulevard entrance to campus. Visitors can speak with a SAMbassador, enjoy showcased SHSU memorabilia, and view the university's "story" on video in the state-of-the-art theater.

Saturday@Sam is our bi-annual campus preview day, held in the fall and spring of each year for prospective students and guests. For more information, please visit Visitor Services (http://www.shsu.edu/visit/) or contact us at (936) 294-1844.

Colleges & Academic Departments

- College of Arts and Media (p. 1454)
  - Department of Art (p. 1455)
  - Department of Dance (p. 1459)
  - Department of Mass Communication (p. 1463)
  - Department of Theatre and Musical Theatre (p. 1468)
  - School of Music (p. 1469)
- College of Business Administration (p. 1481)
  - Department of Accounting (p. 1495)
  - Department of Analytics, Information Systems, and Supply Chain (p. 1501)
  - Department of Business Administration and Entrepreneurship (p. 1506)
  - Department of Economics & International Business (p. 1509)
  - Department of Finance and Banking (p. 1513)
  - Department of Management and Marketing (p. 1516)
  - Executive Master of Business Administration (E.M.B.A.) - Banking and Financial Institutions (p. 1484)
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- College of Criminal Justice (p. 1517)
  - Department of Criminal Justice and Criminology (p. 1519)
  - Department of Forensic Science (p. 1530)
  - Department of Security Studies (p. 1537)
  - Department of Victim Studies (p. 1544)
- College of Education (p. 1548)
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  - Department of Educational Leadership (p. 1560)
  - Department of Library Science and Technology (p. 1572)
  - School of Teaching and Learning (p. 1583)
- College of Health Sciences (p. 1611)
  - Department of Human Sciences (p. 1613)
  - Department of Kinesiology (p. 1617)
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  - Department of Public Health (p. 1637)
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- College of Humanities and Social Sciences (p. 1650)
  - Department of Communication Studies (p. 1652)
  - Department of English (p. 1658)
  - Department of History (p. 1671)
  - Department of Political Science (p. 1678)
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- College of Osteopathic Medicine (p. 1713)
  - Department of Clinical Anatomy (p. 1717)
  - Department of Molecular and Cellular Biology (p. 1718)
  - Department of Osteopathic Principles and Practice (p. 1719)
  - Department of Physiology and Pharmacology (p. 1720)
  - Department of Primary Care and Clinical Medicine (p. 1721)
  - Doctor of Osteopathic Medicine (p. 1715)
- College of Science and Engineering Technology (p. 1723)

- Department of Biological Sciences (p. 1733)
- Department of Chemistry (p. 1740)
- Department of Computer Science (p. 1746)
- Department of Engineering Technology (p. 1764)
- Department of Environmental and Geosciences (p. 1768)
- Department of Mathematics and Statistics (p. 1775)
- Department of Physics and Astronomy (p. 1783)
- School of Agricultural Sciences (p. 1725)

College of Arts and Media

Administrative Officers

Title/Department	Officer
Dean	Jason Vest, DMA jasonvest@shsu.edu; (936) 294-2770
Interim Associate Dean	Brian Gibbs, Ph.D. bxg012@shsu.edu; (936) 294-2773
Associate Dean	Michael Henderson, M.F.A. mhenderson@shsu.edu; (936) 294-1117
Associate Dean	TBD
Department of Art	Rebecca Finley, M.F.A., Chair bfinley@shsu.edu; (936) 294-1314
Department of Dance	Jennifer Pontius, M.F.A., Chair dnc_jkp@shsu.edu; (936) 294-1300
Department of Mass Communication	Nam Young Kim, Ph.D., Chair nyk001@shsu.edu; (936) 294-3651
Department of Theatre and Musical Theatre	Nicholas Graves, M.F.A., Chair nag023@shsu.edu; (936) 294-4033
School of Music	Scott Plugge, D.M.A., Director mus_sdp@shsu.edu; (936) 294-1360

About the College

The college is comprised of the Departments of Art, Dance, Mass Communication, Theatre & Musical Theatre, and the School of Music—five outstanding divisions in one dynamic college that seeks to inspire, educate, and graduate creative artists and media professionals.

The College of Arts and Media enjoys state-of-the-art facilities in which to present unique and cutting-edge programming. Ranging from the traditional to the experimental, students can explore new frontiers in all their creative endeavors. From digital media to film to animation, multiplatform journalism to public relations to graphic design, choreography to composition to conducting, and from stage management to scene design to acting, students in the arts and mass communication can find themselves at Sam Houston.

Master's Degree

Departments	Programs
Art	Art and Social Practice, MFA
Dance	Dance, MFA
Mass Communication	Emerging and Social Media, MA
Mass Communication	Digital Media Production, MFA
School of Music	Band Studies, MA
School of Music	Music, MM

Certificates

Departments	Programs
School of Music	Performer's Certficate: Post-Baccalaureate
School of Music	Artist Diploma Certificate: Post-Master's

Department of Art

About

Chair: Rebecca Finley, M.F.A. (rlf001@shsu.edu)
(936) 294-1314

Graduate Advisor: Jody Wood (jcw081@shsu.edu)

Website: Department of Art (http://www.shsu.edu/academics/art/)

Contact Information: (936) 294-1314

Mission

The mission of the Sam Houston State University Department of Art is to teach skills, techniques, aesthetic principles, and concepts that develop students personally and help to prepare them for professional careers in art and design as well as postgraduate study. We foster a vibrant environment for creative research and collaboration between faculty, students, and the community.

Highlights

- The curriculum consists of courses that provide a strong theoretical framework and the development of the graduate student's creative work. It is designed to provide support for the development of a professional creative practice of art making that engages audiences in community-based projects.
- Graduate students are provided with individual studio space located off-campus and have opportunities to work with local organizations on art projects that are meaningful to the communities that they engage.
- Students from diverse artistic disciplines are given support to sustain an artistic studio practice in media of their choice. Simultaneously, graduate students will develop expertise in university teaching methods as well as integration methods for community engagement. Exhibitions and publications are included in curricular requirements and supported in university galleries and off-campus sites.

Career Opportunities

- University and community college professors
- Independent artists
- Community art organization directors
- Museum and gallery staff

- Master of Fine Arts in Art and Social Practice (p. 1457)

Director/Chair: **Rebecca L Finley**

Mary K Borcherding, MFA (art_mkb@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Indiana University-Bloomington; BS, Univ of Wisconsin-Madison

Christopher Frank Cascio, MFA (cfc005@shsu.edu), *Assistant Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BFA, San Francisco Art Inst

Rebecca L Finley, MFA (rlf001@shsu.edu), *Professor of Photography and Chair of Art*, *Department of Art*, MFA, San Francisco Art Inst; MFA, San Francisco Art Inst; BA, Univ of Tennessee-Knoxville; BA, Univ of Tennessee-Knoxville

Melissa Catharine Glasscock, MFA (mxg102@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Savannah College of Art & Desi; BFA, Univ of Central Florida

Michael Henderson, MFA (mhenderson@shsu.edu), *Professor of Art and Associate Dean, CAM; Adjunct Faculty*, *Department of Art*, MFA, Univ of North Texas; BFA, Univ of North Texas

Melissa L Mednicov, PHD (mmednicov@shsu.edu), *Associate Professor of Art*, *Department of Art*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; BA, Smith College

Emily Ann Peacock, MFA (stdeap16@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BS, Sam Houston State University

Tony R. Shipp, MFA (art_trs@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Florida; BA, Montana State Univ-Billings

Jessica Annie Simorte, MFA (jxs117@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Cincinnati; BA, University of Saint Mary

Edith Carol Wells, MFA (ediewells@shsu.edu), *Assistant Professor of Practice in Art*, *Department of Art*, MFA, Goddard College; MA, Southwest Baptist Theo Seminar; BS, Auburn University

Master of Fine Arts in Art and Social Practice

The Master of Fine Arts in Art and Social Practice is a 60-hour terminal degree. The program consists of graduate courses in the Department of Art that provide strong theoretical framework as well as courses that develop the students' creative work. The program is designed to provide support for the development of a professional creative practice of art making that engages audiences in community-based projects.

Students wishing to pursue an MFA in Art and Social Practice must meet the following requirements and submit all documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html).

1. Graduate Admissions Application (submitted online through ApplyTexas (http://www.shsu.edu/admissions/apply-texas.html))
2. Application Fee
3. A bachelor's degree in art with a 3.0 GPA* in undergraduate art coursework
4. An official transcript from your baccalaureate degree-granting institution
5. A digital portfolio of the applicant's artwork
6. A statement of intent
7. Three letters of reference
8. A resume

***Note**: Exceptions to the 3.0 GPA requirement may be made in instances of outstanding portfolios and letters of recommendation that provide evidence that the student can be successful in a graduate program.

Requirements include public exhibitions and community-engaged art projects. An exhibition is required at the conclusion of the first year, and a review of the student's work by the graduate faculty occurs at the conclusion of the second year. The thesis/exhibition project includes a publication collaboratively designed and written by students in their third year.

Code	Title	Hours
Master of Fine Arts in Art and Social Practice		
Required Courses		
ARTS 5311	Studio Critique [1]	6
ARTS 5312	Studio Seminar [2]	9
ARTS 5313	Teaching Seminar in Art	3
ARTS 5315	Professional & Social Practice	3
ARTS 5381	Socially Engaged Art	3
ARTS 5385	Contemporary Art and Theory	3
ARTS 6311	Collaborative Studio [1]	6
ARTS 6312	Community Seminar [1]	6
ARTS 6313	Studio Critique II [1]	6
ARTS 6381	Research Methods in Art	3
ARTS 6398	Thesis Project I	3
ARTS 6399	Thesis Project II	3
Prescribed Electives [3]		**6**
ARTS 5079	Independent Study	
ARTS 6079	Special Topic	
ARTS 6385	Seminar in Art History	
Total Hours		**60**

1 Taken two times.
2 Taken three times.
3 Or any other 5000 or 6000 level course with the approval of the Department Chair and the Graduate Coordinator.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MFA in Art and Social Practice is designed to provide graduates with the following marketable skills:

- Advanced oral and written communication.
- Critical thinking.

- Teamwork and collaboration.
- Communicating visually.
- Developing and managing budgets.
- Organizing and motivating others.

Department of Dance

About

Chair: Jennifer Pontius (dnc_jkp@shsu.edu)

Graduate Advisor: Dionne Noble (dln008@shsu.edu)

Contact Information: (936) 294-1875 or Dance (dance@shsu.edu)

Website: Department of Dance (http://www.shsu.edu/academics/dance/)

Mission

The Department of Dance at Sam Houston State University delivers a dynamic, holistic, challenging experience that integrates creativity, performance, and scholarly pursuits designed to prepare each student for a 21st-century career in dance.

Highlights

All MFA candidates participate in a thorough and broad-based curriculum that prepares them across a wide range of skills and sensibilities. The curriculum has four major components:

1. Theory and analysis
2. Production
3. Studio practices
4. Creative process

Further, the curriculum is constructed to encourage the student to explore areas of interest beyond the specific discipline of dance that will inform and facilitate future artistic and scholarly investigations. The capstone thesis project requires the candidate to draw on all of his or her talents and education to produce a substantial and meaningful work of creative imagination.

Career Opportunities

Graduates of the Department of Dance are successfully employed around the nation and the state as:

- Dance educators at all levels
- University and community college professors
- Public high school teachers
- Studio owners and teachers
- Performing artists in dance
- Artistic directors of dance companies
- Performing arts presenters and administrators

- Master of Fine Arts in Dance (p. 1461)

Scholarships

The Department of Dance awards scholarships ranging from $500 to $3,000 per academic year. For scholarship consideration, all students must apply through Scholarships4Kats (http://www.shsu.edu/scholarships/). For other funding opportunities, please visit the Graduate Studies website (http://www.shsu.edu/dept/graduate-studies/paying-for-school.html).

Graduate Assistantships

The Department of Dance awards competitive graduate assistantships each year to students based on qualifications and academic standing. The graduate assistantships are usually awarded to second and/or third year students. Assistantship responsibilities include fulfilling six credit hours of assignments in support of the department's activities, equivalent to .50 FTE. Assignments are determined based on departmental needs. Once graduate assistants have completed eighteen hours of coursework, they may be listed as instructors of record for courses and assigned classes to teach as part of their responsibilities.

Assistantship criteria:

- Remain enrolled as a graduate student in the Department of Dance at Sam Houston State University throughout the academic year.
- Fulfill academic requirements as specified by the graduate course of study and graduate faculty.
- Maintain a grade point average of 3.0 or higher.

- As a recipient of a graduate assistantship, understand that one is representing the Department of Dance. The award may be reevaluated or revoked at any time based upon the review and discretion of dance faculty.

To apply for an assistantship from the Department of Dance, a Graduate Assistantship Application (http://www.shsu.edu/academics/dance/documents/Dance%20Graduate%20Assistantship%20Application.pdf) must be submitted along with a teaching resume, two letters of recommendation (at least one from a non-SHSU employee), and unofficial transcripts. Click here (http://www.shsu.edu/academics/dance/current-students/mfa.html) for more information.

Director/Chair: **Jennifer Karen Pontius**

Rasika Nitin Borse, MFA (rnb020@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BA, Univ of Calgary

Travis Dale Lake, MFA (tlake@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, Univ of Utah

Adele Nickel, MFA (axn051@shsu.edu), *Assistant Professor of Dance*, *Department of Dance*, MFA, Univ of Washington; BA, New School/Soc Rsrch

Andrew M Noble, MFA (amn008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Florida State University; BA, Univ of South Florida

Dionne L Noble, MFA (dln008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Univ of Utah; BA, Univ of South Florida

Tyler Brandon Orcutt, BFA (tbo006@shsu.edu), *Lecturer of Dance*, *Department of Dance*, BFA, Univ of South Florida

Jennifer Karen Pontius, MFA (dnc_jkp@shsu.edu), *Associate Professor and Chair of Dance*, *Department of Dance*, MFA, Florida State University; MA, California St Un-Dominguez Hil; BA, Univ of Alabama-Birmingham

Jacob Daniel Regan, MFA (jacobregan@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, East Carolina Univ

Master of Fine Arts in Dance

The Department of Dance at Sam Houston State University offers a 60-hour program of study leading to the Master of Fine Arts degree in Dance, the terminal degree in studio arts. The degree normally takes three years to complete. The program is designed to provide intensive studio experience with substantive choreographic and performance opportunities, underscored by a broad exposure to the philosophical, theoretical, and creative process context of dance as an art form. A creative or performance thesis is required for graduation. Competitive Graduate Assistantships are awarded each year to students based on qualifications and academic standing. A returning professional track is available for qualified candidates.

The curriculum emphasizes choreography and performance, including a significant number of dance technique classes, particularly for candidates coming directly from undergraduate study. Dance professionals in career transitions will find that the program allows considerable latitude to formulate plans of study that meet their needs. The curriculum also includes courses in:

- Composition
- Production
- Dance theory
- Pedagogy
- Somatics
- Research methods
- Integrated technology
- Professional issues in dance

Elective hours may be used outside the Department of Dance for coursework that may apply to the candidate's thesis production or other research interests.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/dance/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The application process for the MFA in Dance is two-fold. Candidates must apply for acceptance to Sam Houston State University through the Office of Graduate Admission (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html). They must also audition for acceptance into the Department of Dance MFA program.

To apply for graduate study at SHSU, submit the following materials:

1. Graduate Studies Online Application submitted online through ApplyTexas (https://www.shsu.edu/admissions/apply-texas.html) with the application fee.
2. Transcripts of all previous college work.
3. Confirmation of undergraduate degree conferral.

Once the Graduate Studies Online Application is received, prospective students may upload the following supplemental materials online at SHSU Self Service Center (http://www.shsu.edu/checkstatus/):

1. Resume/curriculum vitae.
2. Three letters of recommendation.
3. Letter of inquiry.

In addition to the online application for admission to SHSU graduate studies, prospective MFA students must also demonstrate preparation for graduate study in dance to the dance faculty.

1. Submit links to your video portfolio of choreography and performance to Dionne Noble (dln008@shsu.edu). **Do not upload this to the self service portal.**
2. Audition and interview with the dance faculty. Auditions are scheduled on-site. Arrangements can be made for a long-distance audition including a Skype interview if the applicant is not able to come to scheduled auditions. The audition includes:

- Submission of a writing sample.
- Interview with the dance faculty.
- Technique audition in both ballet and modern dance.
- Performance of a self-choreographed solo.

Admission is based upon an aggregated evaluation of all application components.

Code	Title	Hours
Master of Fine Arts in Dance		
Specified Courses		
DANC 5333	Development of Advanced Skills In Dance	15
DANC 5360	Seminar In Dance Production	3
DANC 5371	Theory Of Dance	3
DANC 5373	Laban Movement Analysis	3
DANC 5376	Dance Composition I	3
DANC 5378	Dance Composition II	3
DANC 5380	Dance Composition III	3
DANC 5384	Dance Pedagogy in Higher Education	3
DANC 5385	Research Methods In Dance	3
DANC 5388	Dance and Integrated Technology	3
DANC 5389	Professional Issues in Dance	3
Prescribed Electives		
Select 9 credit hours of the following:		9
DANC 5092	Special Topics	
DANC 5093	Independent Study	
The graduate faculty in Dance will entertain petitions from the candidate to take courses from other disciplines pending appropriate justification within the overall course of study designed by the candidate in consultation with the graduate advisor.		
Thesis		
DANC 6098	Thesis	3
DANC 6099	Thesis	3
Total Hours		**60**

Successful completion of a comprehensive oral examination is required for graduation. This exam, which is administered by a committee of three dance faculty, is administered during the final semester. Oral examination committees are appointed by the Graduate Advisor in consultation with the Graduate Committee and the student. Additional comprehensive examination information (p. 1398) is located in the Graduate Degree Requirements (p. 1397) section of the SHSU Graduate Catalog.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MFA in Dance is designed to provide graduates with the following marketable skills:

- Substantive choreographic and performance skills to support artistic exploration.
- Ability to communicate clearly in writing and speech.
- Qualification to teach dance techniques and related dance coursework in higher education.
- Effective leadership, management, team-building, and independent work strategies.
- Strengthened creative thinking and problem-solving skills that include the ability to innovate, inquire, analyze, evaluate and synthesize information.

Department of Mass Communication

Chair: Nam Young Kim (nyk001@shsu.edu), Ph.D.

Contact Information: (936) 294-4445; Dan Rather Communications Building 212

Website: Department of Mass Communication (http://www.shsu.edu/academics/mass-communication/)

Mission

The mission of the Department of Mass Communication at Sam Houston State University is to prepare professionals to work in the fields of Mass Communication, including Journalism, Broadcasting, Advertising, Public Relations, and Film. The Department promotes clear and effective communication, intellectual curiosity, strategic thinking, and independent learning skills through a focus on critical thinking, writing, technology, and the ethical and legal aspects of mass communication.

The department strives to maintain a work, learning, and social environment that is aware and supportive of diversity in human differences and beliefs.

Highlights

Digital Media Production, MFA

The MFA program in Digital Media Production is a terminal degree program that equips media practitioners and media education professionals with sophisticated knowledge of emerging media technologies and digital media content. This program also empowers students to create professional digital media content across different platforms, media, and distribution methods.

The curriculum covers a variety of issues in Digital Media Production, including mobile application development, digital streaming techniques, mobile content creation and editing software, motion graphics and effects, and comprehensive analysis of social media. These skills are not only essential for employment in traditional media industries, but also of growing importance to educational institutions, government entities, global conglomerates, and local corporations.

Emerging and Social Media, MA

The Master of Arts in Emerging and Social Media program at Sam Houston State University focuses on two interrelated, important areas of digital communication: emerging and social media. The current media landscape requires communication specialists to possess not only advanced skills for creative media content production, but also holistic understanding of strategic media planning, audience analysis, and critical assessment of communication processes. The MA in Emerging and Social Media program allows students to acquire both comprehensive skills and knowledge for effective media communication, helping students achieve their professional and/or academic goals. This fully online MA degree in Emerging and Social Media offers multiple admission dates throughout the year to support the 7-week course offering schedule. Applicants are accepted throughout the calendar year.

- Master of Arts in Emerging and Social Media (p. 1465)
- Master of Fine Arts in Digital Media Production (p. 1467)

Graduate Assistantships

The Department of Mass Communication offers competitive graduate assistantships each year for students who are accepted into both the MA in Emerging and Social Media and the MFA in Digital Media Production. Teaching assistantships are also available for students who have completed 18 credit hours of graduate coursework. Graduate students who have demonstrated distinguished academic performance may apply for a graduate assistantship. All assistantships require students to work 20 hours per week. To apply, please fill out the Application Form and submit the required materials. For information about the stipend and the application process, contact Dr. Kiwon Seo, Graduate Studies Coordinator, by email at Dr. Kiwon Seo (kws014@shsu.edu) or by phone at 936-294-4036.

Director/Chair: **Nam Young Kim**

William Lee Angrove, EDD (wla002@shsu.edu), *Assoc VP For Distance Learning, Adjunct Faculty*, *Department of Mass Communication*, EDD, University of New England; MPA, American Public University; BS, Western Michigan University

Ryan M Broussard, PHD (rxb055@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Louisiana-Lafayette; BA, Univ of Louisiana-Lafayette

Dixuan Cui, PHD (dxc164@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Purdue University; MS, Purdue University; BS, Purdue University; BS, Purdue University

Marcus James Funk, PHD (mjf023@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Trinity University

Martin Daniel Gaston, MED (mdg078@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MED, Houston Christian University; BS, Texas Tech University

Nicole Renee Hendricks, PHD (nrh031@shsu.edu), *Visiting Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Southern Mississippi; MA, Ball State University; BA, Quincy College

Nam Young Kim, PHD (nyk001@shsu.edu), *Professor and Chair of Mass Communication*, *Department of Mass Communication*, PHD, LSU & A&M College; MA, Penn State Un-Univ Park; MAC, Sookmyung Women's University; BA, Sookmyung Women's University

Mia Chandra Long Anderson, PHD (mcl055@shsu.edu), *Professor of Mass Communication; Interim Dean, CAM*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Tennessee-Knoxville; BA, Univ of Georgia

Wojciech Lorenc, MFA (wlorenc@shsu.edu), *Professor of Mass Communication*, *Department of Mass Communication*, MFA, Depaul University; BA, Columbia College-Chicago

Sachin Dheeraj Mudigonda, MFA (sxm259@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, Univ of Texas At Austin; MS, Arizona State University

Ronald B O'Neal, PHD (boneal@shsu.edu), *Assistant Professor of Practice in Mass Communication*, *Department of Mass Communication*, PHD, Our Lady of Lake University; MBA, University of Phoenix; BA, Howard University

Jonathan M Read, MFA (jmr138@shsu.edu), *Lecturer of of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Univ of Houston-Main

Elisa Salem Herrmann, EDD (exh041@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, EDD, Sam Houston State University; MFA, Southern Illinois U-Carbondale; BED, Federal University of Parana

Ki Won Seo, PHD (kws014@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; MAC, Korea University; BA, Korea University; BA, Korea University

Christopher Michael Toula, PHD (cmt077@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Georgia State University; MA, Penn State Un-Univ Park; BA, Buckinghamshire New University

Grant Joseph Wiedenfeld, PHD (grant.wiedenfeld@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; MFA, Univ of Wisconsin-Milwaukee; BA, Univ of Colorado; BFA, Univ of Colorado

Shengjie Yao, MA (sxy027@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MA, Syracuse University; MS, Syracuse University; BA, Fu Jen Catholic Univ

Master of Arts in Emerging and Social Media

The Master of Arts in Emerging and Social Media program at Sam Houston State University focuses on two interrelated, important areas of digital communication: emerging and social media. The current media landscape requires communication specialists to possess not only advanced skills for creative media content production, but also holistic understanding of strategic media planning, audience analysis, and critical assessment of communication processes. The MA in Emerging and Social Media program allows students to acquire both comprehensive skills and knowledge for effective media communication, helping students achieve their professional and/or academic goals.

Courses in emerging media teach advanced skills of up-to-date technologies in creative media production, including virtual reality, augmented reality, mobile applications, and video/audio. Social media courses cover extensive knowledge and theories of how to engage the target audience, design strategic plans, build meaningful relationships, and analyze and present results. This MA program aims to educate well-rounded media specialists.

Successful completion of an emerging or social media project is required for graduation. This project, which is evaluated by a committee of three mass communication faculty, is given during the final semester. The media project evaluation committees are appointed by the Graduate Advisor in consultation with the Graduate Committee and student. Students must be enrolled the semester that they submit their project for evaluation.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/emerging-and-social-media/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the Master of Arts in Emerging and Social Media program must meet the following requirements and submit all documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. An official transcript from the baccalaureate degree-granting institution
4. A 500-word personal statement outlining the student's (a) educational or professional experience with emerging media, social media, or digital media, (b) areas of interest in emerging or social media, and (c) goals and objectives in this program
5. Contact information for two references
6. A current resume
7. For international students only: Required TOEFL score of 550 (paper-based), 213 (computer-based), or 79 (internet-based)

Enrollment Calendar:

This fully online MA degree in Emerging and Social Media offers multiple admission dates throughout the year to support the 7-week course offering schedule. Applicants are accepted throughout the calendar year.

Assistantship Deadline:

Students seeking graduate assistantships should complete their application by March 23rd for best consideration.

Notes:

A holistic review of each student's application file will be completed on a competitive basis.

Code	Title	Hours
Master of Arts in Emerging and Social Media		
Required Courses (9 hours)		
MCOM 5311	Emerging Media Technologies	3
MCOM 5340	Social Media	3
MCOM 5361	Emerging & Social Media Campaign Strategies	3
Prescribed Electives (18 hours)		
Select six of the following:		18
MCOM 5050	Special Topic	
MCOM 5099	Independent Study	
MCOM 5320	Digital Media Ethics and Law	
MCOM 5330	Advanced Writing for Emerging and Social Media	
MCOM 5334	Digital Advertising	
MCOM 5335	Podcasting & Audiobooks	
MCOM 5341	Social Media Analytics	
MCOM 5355	Digital Media Management	
MCOM 5364	Strategic Storytelling for Emerging & Social Media	

MCOM 5390	Professional Internship	
MCOM 6310	UX Design and Production	
MCOM 6311	Advanced Production in Emerging and Social Media	
MCOM 6315	Web and Mobile Development	
MCOM 6330	Digital Editing	
MCOM 6340	Digital Entrepreneurship	
MCOM 6373	Video for Emerging and Social Media	
MCOM 6390	Audio for Emerging and Social Media	
Thesis Project (3 hours)		
MCOM 6099	Thesis Project	3
Portfolio evaluation required for graduation		
Total Hours		**30**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive and applied skill areas.

The MA in Emerging and Social Media is designed to provide graduates with the following marketable skills:

- Strong oral and written communication skills.
- Leadership, critical thinking, and teamwork skills.
- Digital data collection, analysis, and management skills.
- Original and creative media content production skills.
- Social media campaign planning and execution skills.

Master of Fine Arts in Digital Media Production

The MFA program in Digital Media Production at Sam Houston State University is a terminal degree program that equips media practitioners and media education professionals with sophisticated knowledge of emerging media technologies and digital media content. The degree program also empowers students to create professional digital media content across different platforms, media, and distribution methods.

The program covers a variety of issues in Digital Media Production, including mobile application development, digital streaming techniques, mobile content creation and editing software, motion graphics and effects, and the comprehensive analysis of social media. These skills are not only essential for employment in traditional media industries, but also of growing importance to educational institutions, government entities, global conglomerates, and local corporations.

To earn the MFA degree, students are required to take 54 course credits and to submit a digital media portfolio. The portfolio is evaluated during the final semester by a committee of three mass communication faculty. Digital media portfolio evaluation committees are appointed by the Graduate Advisor in consultation with the Graduate Committee and student. Students must be enrolled the semester in which they submit their portfolio for evaluation.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/digital-media-production/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students wishing to pursue an MFA in Digital Media Production must meet the following requirements and submit all documents to the Office of Graduate Admissions.

1. Graduate Admissions Application (submitted online through ApplyTexas (http://www.shsu.edu/admissions/apply-texas.html))
2. Application Fee
3. An official transcript from a baccalaureate degree-granting institution
4. A 500-word personal statement outlining personal goals and objectives for the program
5. A link to an online digital media portfolio created by the applicant (original content only)
6. Contact information for three references
7. A current resume
8. **For International Students Only**: Required TOEFL score of 550 (paper-based), 213 (computer-based), or 79 (internet-based)

Assistantship Deadline:

Students seeking graduate assistantships should complete their application by **March 23rd** for best consideration.

Code	Title	Hours
Master of Fine Arts in Digital Media Production		
Required Courses		
MCOM 5340	Social Media	3
MCOM 6315	Web and Mobile Development	3
MCOM 6330	Digital Editing	3
MCOM 6373	Video for Emerging and Social Media	3
Prescribed Elective Courses		
Select 12 from the following:		36
MCOM 5050	Special Topic	
MCOM 5099	Independent Study	
MCOM 5320	Digital Media Ethics and Law	
MCOM 5324	Social Marketing	
MCOM 5330	Advanced Writing for Emerging and Social Media	
MCOM 5334	Digital Advertising	
MCOM 5335	Podcasting & Audiobooks	
MCOM 5355	Digital Media Management	
MCOM 5390	Professional Internship	
MCOM 6300	Advanced Preproduction	
MCOM 6310	UX Design and Production	
MCOM 6320	Documentary Storytelling	
MCOM 6335	Motion Graphics and Effects	
MCOM 6340	Digital Entrepreneurship	

MCOM 6350	Narrative Scriptwriting	
MCOM 6370	Remote Digital Streaming	
MCOM 6380	Studio Production	
MCOM 6390	Audio for Emerging and Social Media	
Capstone Courses		
MCOM 6398	Capstone Portfolio Project I	3
MCOM 6399	Capstone Portfolio Project II	3
Total Hours		**54**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MFA in Digital Media Production is designed to provide graduates with the following marketable skills:

- Video production and editing skills.
- Digital media content production skills.
- Strategic communication and leadership skills.

Department of Theatre and Musical Theatre

Chair: Nicholas Graves (nag023@shsu.edu), MFA

Contact Information:
(936) 294-1329
theatre@shsu.edu

Website: Department of Theatre & Musical Theatre (http://www.shsu.edu/academics/theatre/)

Mission

The Department of Theatre and Musical Theatre at SHSU is committed to providing excellent performance, choreographic design, and technical curricula of artistic and scholarly pursuits. Individual programs are sufficiently balanced and integrated to allow students to choose from a wide variety of careers in theatre or musical theatre and prepare them to compete successfully in the chosen area of artistic, commercial, or educational specialization. The programs within the Department of Theatre and Musical Theatre are accredited by the National Association of Schools of Theatre (NAST).

Academic Programs

The Department of Theatre and Musical Theatre currently offers only undergraduate degree programs. See the current undergraduate catalog (p. 68) for more details.

Courses

The Department of Theatre and Musical Theatre does not currently offer graduate courses. Please consult the current undergraduate catalog (p. 68) for course offerings.

School of Music

Accredited by National Association of Schools of Music

About

Chair: Dr. Scott D. Plugge (mus_sdp@shsu.edu)

Contact Information: (936) 294-1360

Website: School of Music (http://www.shsu.edu/academics/music/)

Mission

The Sam Houston State University School of Music exists as a community of musician-educators whose mission is:

- To educate and train students for lives of service and contribution — as teachers, performers, composers, therapists, and scholars;
- To provide and nurture a nucleus of musical life for the larger community;
- To educate the university student population regarding music's intrinsic value as a part of the human experience and its central role in human culture; and
- To mutually encourage one another in professional growth and attainment.

Our mission encompasses a variety of programs and curricula, traditional and innovative, which are regularly examined for effectiveness, quality and relevance. It includes our commitment to a combination of:

- Classroom studies in music; and
- The live performance of music both individually and collectively, as central to music study, development, and knowledge.

As an integral part of our mission, we commit ourselves to continuing steps toward realizing the full potential of community, both as teachers and as colleagues; further, we commit to interaction with our students that emphasizes personal attention and interest in their total musical/intellectual development.

Highlights

The School of Music is part of the College of Arts and Media. The college brings together a faculty of artists and educators in a collaboratively creative environment to enrich the lives of students and the community. Graduate degree programs are offered in many areas as preparatory courses for entrance into the professions.

The School of Music is accredited by the National Association of Schools of Music (NASM). We currently offer graduate degrees in performance, composition, conducting, musicology, and an MA in band studies. In addition, we offer two certificate programs (Performers Certificate and Artist Diploma) to accommodate non-degree seeking students' needs in the performance areas. Students have excellent performing opportunities in outstanding choral and instrumental ensembles, as well as jazz, opera, and chamber groups.

The Music faculty includes a community of internationally recognized performers, scholars, and educators. With an outstanding student-to-teacher ratio, students receive close, personal attention and many opportunities to interact with dedicated professionals.

The James and Nancy Gaertner Performing Arts Center, which opened in 2010, comprises an 800-seat concert hall, 180-seat recital hall, 150-seat dance theatre, scene shop, and dance and theatre rehearsal rooms. The building is graced with multiple areas to display the Center's expanding art collection. The School of Music Building, which opened in 1986, features large rehearsal halls, classrooms, a piano lab, a music computer lab, an electronic music studio, practice rooms, and faculty and administrative offices. The School of Music has excellent facilities to accomplish its artistic and educational mission.

Career Opportunities

Graduates of the School of Music are successfully employed around the state, the nation, and internationally as:

- music educators
- music therapists
- musical performers
- music scholars
- music composers
- music industry professionals

Graduate programs in the School of Music include:

- Master of Arts in Band Studies (p. 1472)
- Master of Music (p. 1473)
- Artist Diploma Certificate: Post-Master's (p. 1478)
- Performer's Certificate: Post-Baccalaureate (p. 1479)

Student Organizations and Activities

Numerous student organizations actively promote enrichment across a wide array of musical interests.

American Choral Directors Association — national organization for choral directors. Student membership available in organization that fosters and promotes choral music.

American String Teachers Association/Symphony Association — the group's membership consists of string students at Sam Houston State University and was organized to support string pedagogy on the SHSU campus.

National Association for Music Education — national organization for music education. Membership in this student chapter is open to music education majors.

Mu Tau Omega — student organization for music therapy. Membership open to interested students committed to the study and/or advancement of music therapy in community, educational, and clinical settings.

Phi Mu Alpha Sinfonia — international music fraternity for men. Provides valuable service to the school and community.

Pi Kappa Lambda — national music honor society. Invitation to membership is limited to the top students from the junior, senior, and graduate classes by vote of the faculty members of Pi Kappa Lambda.

Sigma Alpha Iota — international music fraternity for women. Provides valuable service to the school and community.

Tau Beta Sigma — national band sorority. Supports band studies and provides valuable support service to instrumental ensembles and to the school.

Scholarships and Assistantships

Graduate Assistantships and Scholarships are available from the School of Music to support student study. For more information regarding assistantships and scholarships, prospective or current students should contact the Director of the School of Music. Interested persons may also gather more information from the School of Music website. Additional scholarship opportunities are available from the University. Information may be obtained from the Office of Financial Aid and Scholarships (https://www.shsu.edu/dept/financial-aid/scholarships/) website or by telephone (936) 294-1774.

Director/Chair: **Scott D Plugge**

Randy L Adams, MM (mus_rla@shsu.edu), *Professor of Music*, *School of Music*, MM, Northwestern University; BA, Univ of Houston-Main

Mario Aschauer, PHD (mxa072@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, University of Vienna; MA, Univ of Music & Perform Arts; MPHIL, University of Vienna

Katelyn Jane Blankenburg, MMT (kblankenburg@shsu.edu), *Clinical Assistant Professor of Music*, *School of Music*, MMT, Loyola Univ-New Orleans; BM, Sam Houston State University

Tony Lane Boutte, DMA (txb023@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Eastman School of Music; BFA, Louisiana Tech University

Joshua Martin Bronfman, PHD (jxb102@shsu.edu), *Professor of Music*, *School of Music*, PHD, Florida State University; MA, Oregon State University; BME, Florida State University

Tonya Renae Burton, DMA (trb069@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Rice University; BM, Cleveland Institute of Music

Patricia Card, DMA (mus_ppc@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of North Texas; MMUS, Univ of Michigan; BM, Univ of North Texas

Kevin Mark Clifton, PHD (kmc053@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, Univ of Texas At Austin; MM, Univ of Texas At Austin; BA, Austin College

Melissa Dawn Cummins, PHD (mdc071@shsu.edu), *Lecturer of Music*, *School of Music*, PHD, Univ of Kansas; MM, Univ of South Dakota; MMED, Southeast Missouri State Univ; BSED, Nw Missouri St Univ

Bryan Scott Stevens Espinosa, PHD (bse013@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of North Texas; MA, Univ of North Texas; BM, Univ of North Texas

Brian K Gibbs, PHD (bxg012@shsu.edu), *Professor of Music and Acting Associate Dean, CAM*, *School of Music*, PHD, Walden University; MS, Amberton University; BM, Southern Methodist University

Emily Catherine Howes Heilman, DM (ech035@shsu.edu), *Assistant Professor of Music*, *School of Music*, DM, Florida State University; MM, Univ of Louisville; BM, Univ of Louisville

Henry E. Howey, DMA (mus_heh@shsu.edu), *Professor of Music*, *School of Music*, DMA, University of Iowa; MMUS, Univ of Illinois-Urbana; BMUS, Univ of Illinois-Urbana

Lesley L Hughes, PHD (llh036@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of Wisconsin-Madison; DMA, Univ of Wisconsin-Madison; MA, Univ of Wisconsin-Madison; BM, Univ of Kansas

Kyle Douglas Kindred, DMA (kdk001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Texas At Austin; MM, Univ of Texas At Austin; BM, Wichita State University

Lana Kuscer, DMA (lxk025@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of North Texas; MM, Hochschule fur Musik und Theat; BM, Royal College of Music

John W Lane, DMA (jwl002@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of North Texas; BM, Stephen F Austin University

William Matthew Mc Inturf, DMA (mus_wmm@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of Houston-Main; BMUS, Univ of North Texas

Darla Deann McBryde, MM (dxm121@shsu.edu), *Visiting Assistant Professor of Music*, *School of Music*, MM, Stephen F Austin University; BMED, Baylor University

Chris C. Michel, MM (mus_ccm@shsu.edu), *Associate Professor of Music*, *School of Music*, MM, Ohio State University; BM, Baylor University

Javier A Pinell, DM (jap032@shsu.edu), *Professor of Music*, *School of Music*, DM, Florida State University; MM, Miami University; BM, Wayne State University

Scott D Plugge, DM (mus_sdp@shsu.edu), *Professor and Chair of Music*, *School of Music*, DM, Northwestern University; MM, Northwestern University; BM, Baylor University

Rebecca Lee Renfro, DMA (rrg012@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Connecticut; MM, New England Consv/Music; BBA, Sam Houston State University; BM, Sam Houston State University

Diego Ribeiro Caetano, DMA (dxr105@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Colorado; MM, Univ of Wyoming; BM, Federal University of Goias

ILonka Livia Rus, DMA (lir001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Univ of Houston-Main; BM, Oberlin College

Daniel Saenz, DMA (dxs007@shsu.edu), *Associate Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Rice University; BM, Univ of Rochester

Kristin Amanda Sarvela, DMA (kas192@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Illinois-Urbana; MM, Indiana University-Bloomington; BM, Univ of Illinois-Urbana

Wayman Jerome Stover, DMA (wjs016@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Boston University; MM, Depaul University; BM, Indiana University-Bloomington; BM, Indiana University-Bloomington; DIPL, Yale University

Kayoko Dan Temple, DMA (kayokodan@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Arizona State University; MM, Arizona State University; BM, Univ of Texas At Austin

Master of Arts in Band Studies

The Master of Arts in Band Studies is a 30 semester credit hour degree program delivered through a concentrated summer residency in Texas paired with online course delivery through SHSU Online (https://online.shsu.edu/). The program includes interaction with prominent conductors, performers, teachers, and clinicians. It focuses on applicable skills for band directors in a summer-only program, combining an intense study of rehearsal techniques, pedagogy and sequential teaching methodology, score analysis, and literature for band.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/band-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit

Students seeking admission to the Master of Arts in Band Studies program must submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html).

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. School of Music Application
4. Complete an interview.
5. Students must submit three letters of recommendation.
6. Documentation providing evidence of a minimum of two years of experience teaching music at the elementary or secondary level or the professional equivalent.
7. Written essay describing current teaching experience and future professional goals.
8. Transcripts from all previous college level academic work are required and should be submitted to the Office of Graduate Studies. An undergraduate/Baccalaureate degree in music is required.
9. International students must submit an official TOEFL score of at least 213 on the computer-based exam or at least 550 on the paper-based exam.

Successful completion of a comprehensive examination is required for graduation. This exam, which is administered by SHSU faculty, is given during the final semester. Students must be enrolled the semester in which they take comprehensive examinations.

All graduate music students must complete the following hours to meet the required minimum of 30 semester credit hours beyond the undergraduate degree:

Code	Title	Hours
Master of Arts in Band Studies		
Specified Courses		
MUEN 5112	Graduate Ensemble [1]	3
MUSI 5378	Sequential Methods: Kindergarten-12 Music [1]	9
MUSI 5388	Seminar In Literature	3
MUSI 5398	Advanced Studies in the Applied Discipline	3
MUSI 6285	Applied Analysis and Pedagogy [1]	6
MUSI 6388	Band Research & Pedagogy	3
MUSI 6031	Major Project [2]	3
Total Hours		**30**

1 Taken 3 times.
2 A 1 semester credit hour course taken 3 times.

First Year	
Summer	**Hours**
MUSI 5378	3
MUSI 6031	1
MUSI 6285	2
MUSI 5398	3
MUEN 5112	1
	10

Second Year	
Summer	**Hours**
MUSI 5378	3

MUSI 6031	1
MUSI 6285	2
MUSI 5388	3
MUEN 5112	1
	10

Third Year

Summer	**Hours**
MUSI 5378	3
MUSI 6031	1
MUSI 6285	2
MUSI 6388	3
MUEN 5112	1
	10

Total Hours: 30

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Band Studies is designed to provide graduates with the following marketable skills:

- Communication skills: verbal and musical.
- Critical and creative thinking and problem solving skills.
- Versatile 21st century musicians with professional and collaborative attitude.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement.

Master of Music

The Master of Music is specifically designed to develop the musician, scholar, or educator for a professional career in music. This degree is offered with tracks in the following areas:

- Performance
- Collaborative Piano/Chamber Music
- Conducting
- Composition
- Musicology

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/music/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the graduate program in music must submit all documents to the Office of Graduate Admissions. In addition, the following are required:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Students must complete the School of Music admission requirements:
   - Submit School of Music application form.
   - Submit three letters of recommendation.
   - Complete an audition and/or interview (see individual tracks for specific requirements).
4. Prospective students must submit two writing samples, including a personal statement and a scholarly writing sample. In the personal statement, explain your interest in pursuing graduate studies in your area of specialty and your career plans/goals following graduate school. The second writing sample should represent your best scholarly writing about music, such as a research paper from a previous music theory or music history course. This scholarly writing sample should demonstrate your ability to utilize and appropriately cite reputable references and should showcase your capacity to synthesize information from various sources and create new interpretations of that information. Both samples will be assessed

for content, as well as the mechanics of your writing, including sentence structure, word choice, sentence and paragraph length, punctuation, and spelling. For a final admissions decision, writing samples do not constitute the sole criterion for consideration of the applicant, nor do writing samples constitute the primary criterion to end consideration of an applicant. The applicant's writing samples will be compared with those of other applicants from similar socioeconomic backgrounds to the extent that those backgrounds can be properly determined and identified by the School of Music's admissions process.

5. Transcripts from all previous college level academic work are required and should be submitted to the Office of Graduate Studies. An undergraduate/Baccalaureate degree from a NASM-accredited institution or equivalent international degree in music is required.
6. International students must submit an official TOEFL score of at least 213 on the computer-based exam, or at least 550 on the paper-based exam.

All students pursuing Master of Music graduate degree programs must take and satisfy the Graduate Music Diagnostic Exam, administered by the SHSU music faculty, prior to the first semester of residence. The exam includes questions concerning music history, music theory, and if required, foreign language and diction (Vocal Performance, Choral Conducting, and Collaborative Piano/Chamber Music only). The purpose of the Graduate Music Diagnostic Exam is to evaluate each student's general musical knowledge and identify deficiencies. Students deficient in any area will be required to take additional coursework or retake and pass the Diagnostic Exam before they can schedule their M.M. comprehensive oral examination. Students should visit School of Music (http://www.shsu.edu/academics/music/)for specific information and dates.

- Successful completion of a comprehensive oral or written examination is required for graduation. This exam, which is administered by a committee of three music faculty, is given during the final semester. Oral/written examination committees are appointed by the Graduate Advisor in consultation with the Graduate Committee and student. Students must be enrolled the semester in which they take comprehensive examinations.
- All graduate music students must complete the core hours and the specific track hours to meet the required minimum of 30 hours beyond the undergraduate degree.

Code	Title	Hours
Master of Music Core (9 hours)		
Courses		
MUSI 5330	Analytical Techniques	3
MUSI 6398	Research Techniques	3
Music History		
Select one of the following Music History courses (MUSI 5XXX):		3
MUSI 5331	Seminar In Baroque Music	
MUSI 5332	Seminar In Classical Music	
MUSI 5337	Seminar in Nineteenth-Century Music	
MUSI 5338	Seminar in Twentieth-Century Music	
Total Hours		**9**

Notes

All degrees require a final graduate recital, project, or thesis.

Successful completion of a comprehensive oral or written examination is required for graduation. This exam, which is administered by a committee of three music faculty, is administered during the final semester. Oral/written examination committees are appointed by the Graduate Advisor in consultation with the Graduate Committee and the student. Additional comprehensive examination information (p. 1398) is located in the Graduate Degree Requirements (p. 1397) section of the SHSU Graduate Catalog.

Specific Track Requirements

Code	Title	Hours
Instrumental Performance Track		
Courses		
XXXX 5201	Ind Performances-XXXX (Applied Lessons in Instrument)	8
MUEN 5112	Graduate Ensemble	2
MUSI 6181	Recital I	1
MUSI 5388	Seminar In Literature	3
MUSI 5398	Advanced Studies in the Applied Discipline	3
Electives		
Select one of the following:		3
MUSI 5363	Pedagogy Of Theory	
MUSI 5365	Counterpoint and Analysis	

MUSI 5367	Score Reading	
MUSI 5XXX	Music History	
Other course with advisor approval		
Performance Elective		
Select one of the following:		1
MUSI 6182	Recital II	
XXXX 5201	Ind Performances-XXXX (Applied Lessons in Instrument)	
Other course with advisor approval		
Total Hours		**21**

Students seeking admission to the Instrumental Performance track must pass an entrance audition administered by the appropriate faculty member, or group of faculty members, in the area of study. Students should contact the major professor in their area of interest for the appropriate level of repertoire required.

Code	Title	Hours
Vocal Performance Track		
Courses		
MUEN 5112	Graduate Ensemble	2
MUSI 6181	Recital I	1
MUSI 5388	Seminar In Literature	3
MUSI 5398	Advanced Studies in the Applied Discipline	3
VOIC 5201	Individual Performances-Voice	8
Electives		
Select one of the following:		3
MUSI 5362	Vocal Pedagogy and Techniques	
MUSI 5363	Pedagogy Of Theory	
MUSI 5365	Counterpoint and Analysis	
MUSI 5367	Score Reading	
MUSI 5XXX	Music History	
Other course with advisor approval		
Performance Elective		
Select one of the following:		1
MUEN 5118	Chamber Music	
MUSI 6182	Recital II	
Other course with advisor approval		
Total Hours		**21**

Students seeking admission to the Vocal Performance track must pass an entrance audition administered by the appropriate faculty in the area of study. Audition requirements include the following memorized repertoire:

- an operatic aria
- an oratorio aria
- a French, German, Italian, and English art song

Students interested in the Vocal Performance track are required to pass the foreign language and diction portion of the Graduate Diagnostic Exam. Students must show competence in languages including English, French, German, and Italian. Students deficient in either area will be required to take the appropriate undergraduate courses.

Code	Title	Hours
Piano Performance Track		
Courses		
MUEN 5110	Accompanying Seminar	2
MUSI 5388	Seminar In Literature	3
MUSI 5398	Advanced Studies in the Applied Discipline	3
MUSI 6181	Recital I	1
MUSI 6182	Recital II	1

PIAN 5201	Individual Performances-Piano	8
Electives		
Select one of the following:		3
MUSI 5363	Pedagogy Of Theory	
MUSI 5365	Counterpoint and Analysis	
MUSI 5367	Score Reading	
MUSI 5XXX	Music History	
Other course with advisor approval		
Total Hours		**21**

Students seeking admission to the Piano Performance track must pass an entrance audition administered by the appropriate faculty member, or group of faculty members, in the area of study. Audition requirements include:

- a complete sonata by Haydn, or Mozart (excluding K. 545), or Beethoven (excluding Op. 49)
- two additional piano works from contrasting musical styles
- major/harmonic minor scales
- sight-reading

Code	Title	Hours
Collaborative Piano/Chamber Music Track		
MUEN 5110	Accompanying Seminar	4
MUEN 5118	Chamber Music	2
MUSI 6181	Recital I [1]	1
MUSI 6182	Recital II [1]	1
MUSI 6183	Recital III [1]	1
MUSI 5388	Seminar In Literature	3
PIAN 5201	Individual Performances-Piano	8
Elective with advisor approval		1
Total Hours		**21**

[1] At least one of the recitals must be vocal emphasis and at least one must be instrumental emphasis.

Students seeking admission to the Collaborative Piano/Chamber Music track must pass an entrance audition administered by the appropriate faculty member, or group of faculty members, in the area of study. Audition requirements include:

- a complete instrumental sonata from the standard repertoire
- a set of three songs of standard art song literature
- a solo piano work of candidate's choice
- major/harmonic minor scales
- sight-reading

Students interested in the Collaborative Piano/Chamber Music track are required to pass the foreign language and diction portion of the Graduate Diagnostic Exam. Students deficient in either area will be required to take the appropriate undergraduate courses.

Code	Title	Hours
Conducting Track		
Courses		
COND 5001	Applied Conducting	8
MUEN 5112	Graduate Ensemble	2
MUSI 5388	Seminar In Literature	3
MUSI 5398	Advanced Studies in the Applied Discipline	3
MUSI 6181	Recital I	1
Electives		
Select one of the following:		3
MUSI 5363	Pedagogy Of Theory	
MUSI 5365	Counterpoint and Analysis	

MUSI 5367	Score Reading	
MUSI 5XXX	Music History	
Other course with advisor approval		
Performance Elective		
Select one of the following:		1
MUSI 6182	Recital II	
XXXX 5201	Applied lessons	
Other course with advisor approval		
Total Hours		**21**

Students seeking admission to the Conducting Track (both Choral and Instrumental) must complete an interview and submit a conducting video of a recent concert and/or rehearsal, and audition on their primary instrument/voice. Those students with piano skills will be given preference for admission to the Choral Conducting track.

Students interested in the Choral Conducting track are required to pass the foreign language and diction portion of the Graduate Diagnostic Exam. Students deficient in either area will be required to take the appropriate undergraduate courses.

Code	Title	Hours
Composition Track		
Courses		
COMP 5201	Applied Composition	4
COMP 5202	Applied Composition Large Ensemble	4
MUEN 5112	Graduate Ensemble	2
MUSI 5363	Pedagogy Of Theory	3
MUSI 5367	Score Reading	3
MUSI 6181	Recital I	1
Electives		
Select one of the following:		4
MUSI 5365	Counterpoint and Analysis	
XXXX 5201	Applied lessons	
MUSI 5XXX	Music History	
Other course with advisor approval		
Total Hours		**21**

Students seeking admission to the Composition track must complete an interview with the appropriate composition faculty and submit a portfolio of recent compositions. Students must also demonstrate piano proficiency by performing a short prepared piece or two (totaling no more than five minutes), and by sight-reading during the interview. Students deficient in this area must take the appropriate undergraduate courses.

Code	Title	Hours
Musicology Track		
Courses		
MUSI 5363	Pedagogy Of Theory	3
MUSI 5398	Advanced Studies in the Applied Discipline	3
MUSI 6099	Thesis	6
Select two of the following with approval of advisor:		6
MUSI 5331	Seminar In Baroque Music	
MUSI 5332	Seminar In Classical Music	
MUSI 5337	Seminar in Nineteenth-Century Music	
MUSI 5338	Seminar in Twentieth-Century Music	
Elective(s) with advisor approval		3
Total Hours		**21**

Students seeking admission to the Musicology track must complete an admission interview with the musicology coordinator and submit a sample of academic writing.

Students who graduate with an emphasis in Musicology are required to pass a language proficiency examination in either German or French. The language requirement should ideally be fulfilled by the end of the second semester of residence.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Master of Music is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Artist Diploma Certificate: Post-Master's

The Artist Diploma Certificate: Post-Master's, is a one-year non-degree program designed to meet the needs of highly accomplished performers who have completed a Master's degree in Music and wish to further their career goals in the performing arts. Candidates for the Artist Diploma Certificate: Post-Master's must demonstrate the requisite talent and potential to develop a high level of competency, artistic sensibility, and a strong sense of commitment for a career as a professional musician. The program is designed to provide intensive repertoire study and performance opportunities under the guidance of master teachers in preparation for a concert career or doctoral program in music performance.

This Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/artist-diploma-certificate/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Artist Diploma Certificate: Post-Master's must submit the following directly to the Office of Graduate Admissions (http://www.shsu.edu/dept/graduate-admissions/):

- Graduate Application (https://www.shsu.edu/admissions/applications/)
- Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)
- Official transcript from a baccalaureate degree-granting institution
- Official transcript from the master's degree-granting institution: Master of Arts or Master of Music in Performance
- On-campus audition and interview (Online video conference auditions and interviews may be set up for international students by the graduate advisor.)
- Three current letters of recommendation
- Resume detailing previous musical and performance experience

- Two semesters of Applied Lesson study at the graduate level - 4 credit hours (Course XXXX 5201; e.g., PIAN 5201, VILN 5201).
- Two semesters of Ensemble or Chamber Music participation at the graduate level specific to the student's career goals (2 credit hours; MUEN 5110, MUEN 5112, or MUEN 5118).
- Two Recitals at the graduate level (2 credit hours; MUSI 6181 and MUSI 6182).

- Two semesters of free* electives (6 credit hours). *Free electives must be jointly approved by the student's applied teacher and graduate advisor.

First Year

Fall	Hours	Spring	Hours
MUEN 5110, 5112, or 5118		1 MUEN 5110, 5112, or 5118	1
MUSI 6181		1 MUSI 6182	1
XXXX 5201 (Applied Lessons)		2 XXXX 5201 (Applied Lessons)	2
Free Elective		3 Free Elective	3
		7	**7**

Total Hours: 14

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/artist-diploma-certificate/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Artist Diploma Certificate: Post-Master's is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

Performer's Certificate: Post Baccalaureate

The Performer's Certificate: Post-Baccalaureate is a one-year non-degree course of study designed for students who have completed an undergraduate degree in Music and who are interested in intensive training and further development of performance skills in a concentrated area. Candidates for the Performer's Certificate: Post-Baccalaureate must demonstrate the requisite talent and potential to develop a high level of competency, artistic sensibility, and a strong sense of commitment for a career as a professional musician. This program will provide an in-depth study of concert repertoire with the objective of providing the practical experience necessary to be competitive for graduate scholarships, assistantships, and professional positions in the music field.

This Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/performers-certificate/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Performer's Certificate: Post-Baccalaureate must submit the following directly to the Office of Graduate Admissions (http://www.shsu.edu/dept/graduate-admissions/):

- Graduate Application (https://www.shsu.edu/admissions/applications/)
- Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)
- Official transcript from a baccalaureate degree-granting institution
- On-campus audition and interview (Online video/Skype auditions and interviews will be set up for international students by the graduate advisor.)
- Three current letters of recommendation
- Resume detailing previous musical and performance experience

- Two semesters of Applied Lesson study at the graduate level - 4 credit hours; Course XXXX 5201 (e.g., PIAN 5201, VILN 5201).
- Two semesters of Ensemble or Chamber Music participation at the graduate level specific to the student's career goals (2 credit hours; MUEN 5112 or MUEN 5118).
- Two semesters of free* electives (6 credit hours). *Free elective courses must be jointly approved by the student's applied teacher and graduate advisor.
- One Recital at the graduate level (1 credit hour; MUSI 6181).

Fall	Hours	Spring	Hours
Free Elective	3	Free Elective	3
MUEN 5112 or 5118	1	MUEN 5112 or 5118	1
XXXX 5201(Applied Lessions)	2	MUSI 6181	1
		XXXX 5201 (Applied Lessons)	2
	6		**7**

Total Hours: 13

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/performers-certificate/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

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The Performer's Certificate: Post-Baccalaureate is designed to provide graduates with the following marketable skills:

- Communication skills: written, verbal, and musical.
- Critical and creative thinking, multitasking, and problem-solving skills.
- Versatile 21st century musicians with professional, collaborative, and inclusive demeanor.
- Entrepreneurial in spirit including leadership, marketing, and self-promotion.
- Community engagement and ability to work with diverse populations.

College of Business Administration

Administrative Officers

Title/Department	Officer
Dean	Shar Self, Ph.D. sharself@shsu.edu; (936) 294-1254
Senior Associate Dean	Shani N. Robinson, Ph.D., CPA shani.robinson@shsu.edu; (936) 294-4241
Associate Dean	Fred A. Forgey, Ph.D. forgey@shsu.edu; (936) 294-4215
Assistant Dean	Natalie Hegwood, Ph.D. nhegwood@shsu.edu; (936) 294-4887
Department of Accounting	Cassy Henderson, Ph.D., Chair cdh045@shsu.edu; (936) 294-1257
Department of Analytics, Information Systems, and Supply Chain	Gerald Kohers, Ph.D., Chair kohers@shsu.edu; (936) 294-1256
Department of Business Administration and Entrepreneurship	Diana Brown, J.D., Chair dxb029@shsu.edu; (936) 294-2578
Department of Economics and International Business	Mary Funck, Ph.D., Chair mcf012@shsu.edu; (936) 294-1277
Department of Finance and Banking	Mary Funck, Ph.D., Chair mcf012@shsu.edu; (936) 294-1277
Department of Management and Marketing	Irfan Ahmed, Ph.D., Chair mgt_ixa@shsu.edu; (936) 294-1276
Associate Director, Graduate Programs	Fred A. Forgey, Ph.D. busgrad@shsu.edu; (936) 294-1239

Contact Information

Graduate Programs (busgrad@shsu.edu), Associate Director, Dr. Fred A. Forgey (faf013@shsu.edu)

Smith-Hutson Building 103, (936) 294-1239

College of Business Administration (http://www.shsu.edu/~coba/)

Vision Statement

The College of Business Administration will be among the top-ranked colleges of business for upward social mobility and be recognized for having the highest level of student and community impact in the region.

Mission Statement

The College of Business Administration develops impactful business professionals through innovative degree programs, the development of marketable competencies and skills, experiential learning, and community engagement. We focus on student and career success, social mobility, workforce needs, and promoting regional economic growth, emphasizing excellent teaching, impactful scholarship, personalized student services, and strong community connections.

Core Values

- Sense of Community and Belonging. Fostering a caring and supportive community.
- Professional Excellence. Creating a culture of quality and leadership.
- Accountability. Accepting responsibility for our actions.
- Mutual Respect. Demonstrating respect and valuing individual perspectives, achievements, abilities, and qualities.
- Honor and Integrity. Encouraging individuals to build strong relationships through honesty, trust, and dependability.
- Continuous improvement. A culture of continuously striving for improvement in everything we do.

Highlights

The College of Business Administration is accredited by the Association to Advance Collegiate Schools of Business International (AACSB International) and has a nationally recognized chapter of Beta Gamma Sigma, the national honor society in business. The College's online programs are highly ranked by *US News & World Report*.

Each year the College of Business Administration conducts a career fair that offers students the opportunity to interact with 50 or more employers from all types of business and not-for-profit organizations. Additionally, the Department of Accounting conducts a "Meet-the-Firms Night" each fall for primarily accounting, finance, and management information systems majors.

Master's Degrees

- Executive Master of Business Administration in Banking and Financial Institutions (p. 1484)
- Master of Business Administration (p. 1486)
- Master of Business Administration: Accelerated Track (p. 1491)
- Master of Science in Accounting (p. 1498)
- Master of Science in Applied Economics (p. 1511)
- Master of Science in Project Management (p. 1502)

Certificates

Departments	Programs
Business Administration and Entrepreneurship	Real Estate Analysis
Management, Marketing, and Information Systems	Quality Management Tools
Management, Marketing, and Information Systems	Project Methods and Tools

Student Organizations and Activities

- Alpha Kappa Psi
- Association for Business Information Technology Students
- Association of Certified Fraud Examiners
- Association of Supply Chain Management
- Banking and Finance Club
- Beta Alpha Psi
- Beta Gamma Sigma
- COBA Ambassadors
- Collegiate Entrepreneurs' Organization
- International Business and Economics Club
- The Investment Club
- Marketing Student Club
- MBA Student Association
- National Association of Black Accountants
- Omicron Delta Epsilon
- Phi Chi Theta
- Society for Human Resource Management

Additional student organizations exist within specific majors and/or departments. Please see the appropriate major/department for more details.

Scholarships

Numerous scholarships are available on a competitive basis for incoming and currently enrolled graduate students in the College of Business Administration. Students are encouraged to apply for scholarships using the Scholarships4Kats (https://shsu.academicworks.com/) program at Financial Aid (http://www.shsu.edu/dept/financial-aid/). The Scholarship4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. Applications are typically accepted through Scholarships4Kats (https://shsu.academicworks.com/) between October 1 and February 15 for incoming students and between January 2 and February 15 for returning students. Deadlines may change so students are encouraged to check the website for current information. Scholarship recipients are announced in April for the following academic year.

Scholarships vary from year to year and typically include:

- Bala and Santhi Maniam Finance Scholarship
- Charles R. Carlow Endowed Scholarship
- Kelly DeHay & Rod Danielson COBA Scholarship
- Douglas C. Fletcher, Sr. Scholarship
- Project Management Institute (PMI) Scholarships

- SHSU Online Scholarships
- John Patrick Singleton Memorial Scholarship
- Kimbrough M. Winston, Sr. Graduate Business Scholarship
- Neva and Wesley West Scholarship
- Wood-Yager Scholarship

The College of Business Administration also offers competitive graduate assistantships each year for students who are accepted into the program. All students who have demonstrated distinguished academic performance may apply for a graduate assistantship. All assistantships require students to work 20 hours per week. Students interested in applying for an assistantship should contact the college directly at busgrad@shsu.edu.

Executive Master of Business Administration (E.M.B.A.) - Banking and Financial Institutions

The Executive Master of Business Administration (EMBA) in Banking and Financial Institutions program at Sam Houston State University is designed to develop and enhance a candidate's skills that are necessary for a position of leadership in a financial institution or regulatory agency. The program emphasizes the integration and synthesis of various disciplines to develop a student's ability to function and make sound administrative decisions in a dynamic financial institution environment. The EMBA program is suited for qualified students from any academic discipline who have experience in the financial institutions field.

The EMBA is a two-year cohort program with a new cohort beginning each fall semester. It is an online program with an annual one-week residency requirement prior to the start of each fall semester with one weekend session each spring semester. During the residency period, students learn from and engage with dynamic industry executives at a Leadership Lecture Series followed by six online courses during the upcoming academic year. Up to nine hours of coursework may be transferred into the EMBA program from the Southern Methodist University Graduate School of Banking or the Graduate School of Banking at Louisiana State University.

Applicants must submit the materials listed under the admission requirements directly to the Office of Graduate Admissions. The deadline to submit a complete application is May 31.

Admission Requirements for Domestic (U.S. Citizens)

Prospective candidates for the Executive MBA in Banking and Financial Institutions Online Program must submit to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html) the following items:

- Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
- Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
- Official transcript from an accredited baccalaureate degree granting institution
- Current resume
- Undergraduate GPA of 2.50 or higher
- Student without a baccalaureate degree in business must have at least three years' work experience in a banking or regulatory position. This experience negates the requirement for prerequisite course work as required in the conventional MBA.

Domestic students' additional requirements for admission:

- Access to a computer with a configuration to be provided.
- Ability to work with Internet-based technology.
- An interview with the Associate Director of Graduate Studies in the College of Business Administration or the Chair of Banking either in person or via telephone.
- If the student does not have a baccalaureate degree in business, a statement indicating the positions held in banking or regulation is required.
- Ability to attend an annual one-week residency session prior to the start of each fall semester with one weekend session each spring semester and work on the web-based sessions.
- Students who are not in good standing at another college or university are not eligible for admission.

Admission Requirements for International Students (defined as non-U.S. Citizens, except those that hold permanent residency status)

Prospective candidates for the Executive MBA in Banking and Financial Institutions Online Program must submit to the Office of Graduate Admissions the following items:

- Graduate application (http://www.shsu.edu/admissions/apply-texas.html)
- Application Fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
- Official transcripts from an AACSB accredited baccalaureate degree granting institution
- Resume

International students' additional requirements for admission:

- A business administration degree from an AACSB accredited baccalaureate degree granting institution.
- For those students whose degree is in an area other than business administration from an AACSB accredited college or university, it is necessary that the student have at least three years work experience in a banking or regulatory position.
- A statement of support from student's employer to ensure the ability to attend the annual one-week residency session and work on the web-based sessions.

- A professional resume or a statement indicating the positions held in banking or banking regulation.
- An interview with the Associate Director of Graduate Studies in the College of Business Administration or the Chair of Banking either in person or via telephone.
- Ability to work with Internet-based technology.
- Access to a computer with a configuration to be provided.
- Students who are not in good standing at another college or university are not eligible for admission.
- Consistent with university policy, international students (defined as non-U.S. citizens, except those that hold permanent residency cards) must take and successfully complete the TOEFL test with a score of at least 79, IELTS score of at least 6.5, or Duolingo EPT score of at least 105.
- Graduate Management Admission Test (GMAT) with a score of at least 485.
- Ability to attend an annual one-week residency session prior to the start of each fall semester with one weekend session each spring semester and work on the web-based sessions.

All immigration requirements must also be satisfied prior to admission.

The degree program requires a minimum of thirty-six hours of graduate credit.

Code	Title	Hours
Executive Master of Business Administration (E.M.B.A.) - Banking and Financial Institutions		
ACCT 5304	Accounting For Management	3
BANA 5368	Techniques Of Statistical Analysis	3
BUAD 5310	Managerial Communication	3
ECON 5357	Seminar in Managerial Economics	3
FINC 5310	Financial Management	3
FINC 5320	Seminar in Commercial Banking	3
FINC 5333	Financial Statement Analysis	3
FINC 5338	Selected Topics in Money, Capital, and Security Markets	3
FINC 5395	Seminar in Commercial Lending [1]	3
MGMT 5335	Services Management and Marketing	3
MKTG 5330	Marketing Management	3
SCMG 5325	Project Management	3
Total Hours		**36**

[1] FINC 5395 is a capstone course that satisfies the comprehensive exam requirement. A grade of "B" or better is required for graduation.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The EMBA is designed to prepare business professionals for leadership roles within commercial banks or regulatory agencies. Specific marketable skills include:

- Effective communication: Graduates will be able to demonstrate language and content that suits the intended audience and organize content in a logical sequence.
- Effective critical thinking: Graduates will be able to distinguish relevant and non-relevant information regarding a business or banking problem and develop a valid argument in support of a conclusion.
- Effective strategic decision-making: Graduates will be able to consider different strategic options using available evidence through the lens of organizational goals and generate applicable solutions for business and banking problems.

Master of Business Administration

The Master of Business Administration program at Sam Houston State University is designed to develop candidates for positions of leadership in modern organizations. Managerial procedures and practices are continually changing. Therefore, the program emphasizes the integration and synthesis of various disciplines to develop a student's ability to function in a dynamic environment and make sound administrative decisions that maximize the value and contributions of an organization. The MBA program is suited for qualified students from any academic discipline. The program provides the candidate with a basic managerial background through the core requirements while providing individualized adaptation through elective courses.

The MBA requires 36 graduate hours including 27 hours of core courses and 9 hours of electives.

Core and elective courses are available to complete our MBA program entirely online. Please see the current schedule of classes (http://www.shsu.edu/academics/current-schedule-of-classes.html) for the course offerings.

The MBA program may be completed in as few as four semesters; however, it is not recommended that students who are working attempt more than six hours in a semester. A more realistic timeline would be approximately two years.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/business-administration/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Business Administration program must:

1. Complete the online graduate application form (http://www.shsu.edu/admissions/apply-texas.html).
2. Pay the application fee (http://www.shsu.edu/admissions/apply-texas.html).

Additionally, applicants must submit the following material directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Official transcript(s) from all previous college work (except SHSU graduates).
2. An official GMAT score. **Undergraduate GPA[1] of 2.75 or higher allows for a comprehensive review of academic performance and consideration for a GMAT waiver.**

International Students must submit all of the above information plus:

1. Official TOEFL score at least 79, IELTS score of at least 6.5, or Duolingo EPT score of at least 105.
2. English translations and evaluation of official transcripts.

Graduate Application Deadlines

U.S. Citizens

- Fall - August 1
- Spring - December 1
- Summer - May 15

International Students

- Fall - June 25
- Spring - November 12
- Summer - April 9

Admission Criteria

Degree from a U.S. university

- **Meet or exceed one of the following admission formulas:**
  - 200 (Undergraduate GPA) + GMAT Score >= 1050[1]
  - 200 (Advanced Hours Undergraduate GPA) + GMAT Score >= 1100[2]

Degree from a non-U.S. university

- **Students who earned a baccalaureate degree from a university located outside of the United States must satisfy all of the following to be considered for admission into SHSU's MBA program.**

- GMAT score of at least 485.
- TOEFL score of at least 79, IELTS score of at least 6.5, or Duolingo EPT score of at least 105.
- English translations and evaluations of official transcripts.

GMAT Waiver Requests

- Undergraduate GPA[1] of 2.75 or higher allows for an automatic comprehensive review of academic performance and consideration for a GMAT waiver.
- Applicants who have an undergraduate GPA of at least 2.5 from their degree granting U.S. institution and have at least three years of *significant* managerial and professional experience may be admitted without a GMAT score, typically through a review of the applicant's resume. Normally, the required experience is earned after completion of the undergraduate degree. A committee will assist, if needed, in determining if the applicant's experience meets the "significant managerial and professional experience" threshold. The student may request this waiver by emailing busgrad@shsu.edu.
- Applicants who have an undergraduate degree granted by a non-U.S. institution will not be considered for a GMAT waiver.

1 The undergraduate GPA is the GPA from courses taken at the degree granting institution. Transfer grades are **not** used in the computation of this undergraduate GPA.

2 The advanced hours undergraduate GPA is the GPA from junior and senior (3000 and 4000) level courses taken at the degree granting institution. Transfer grades are **not** used in the computation of this undergraduate GPA.

Prerequisite Coursework Requirements for Non-Business Graduates

Prerequisite courses for graduate business courses are **required** for students who did not take the equivalent courses as part of their baccalaureate program or for students with a baccalaureate degree from a non-U.S. university. The graduate prerequisite courses (courses listed as 5300) **do not** apply to the 36-hour graduate credit hour requirement of the MBA degree.

Code	Title	Hours
Prerequisite Course Requirements		
ACCT 5300	Analysis of Accounting Information	3
BANA 5300	Quantitative Tools For Business	3
ECON 5300	Economic Principles And Policy	3
FINC 5300	Business Finance Environment	3
MGMT 5300	Foundations Of Strategic Management	3
Total Hours		**15**

The M.B.A. degree program requires a minimum of thirty-six hours of graduate credit.

Code	Title	Hours
Master of Business Administration		
Specified Courses		
ACCT 5304	Accounting For Management	3
BANA 5368	Techniques Of Statistical Analysis	3
BUAD 5310	Managerial Communication	3
FINC 5310	Financial Management	3
MGMT 5345	Seminar In Team Leadership	3
MGMT 5390	Seminar in Strategic Management and Policy [1]	3
MKTG 5330	Marketing Management	3
SCMG 5315	Seminar Operations Management	3
Prescribed ECON/COBA Electives OR Concentration		**12**
ECON/COBA Electives		
Select one ECON 5XXX (any 5000 level ECON course, excluding ECON 5080 and ECON 5300)		
Select three General Electives (may choose from: All graduate courses in the College of Business Administration) [2]		
Concentration		
Select from Concentration options below		
Total Hours		**36**

1 This is a capstone course that satisfies the comprehensive exam requirement. A grade of "B" or better is required for graduation.

[2] Excluding ACCT 5300, BANA 5300, ECON 5300, MGMT 5300, and FINC 5300.

MBA Concentrations

For those students that would like to concentrate on specific disciplinary areas, the COBA electives can target the following course options. Students wishing to add a second concentration would need to complete additional coursework beyond the minimum 36 hours required within the MBA program.

Concentration Options

Economics

Code	Title	Hours
Economics Concentration		
Choose 4 from the following:		12
ECON 5301	Mathematical Methods for Applied Economics	
ECON 5305	Microeconomics	
ECON 5307	Macroeconomics	
ECON 5325	Econometrics	
ECON 5340	International Economics	
ECON 5348	Development Economics	
ECON 5350	Applied Topics in Health Economics	
ECON 5351	Seminar In Labor Economics	
ECON 5352	Energy Economics	
ECON 5357	Seminar in Managerial Economics	
ECON 5360	Economic Analysis Of Strategy	
ECON 5370	Economic Theory	
ECON 5373	Urban Economics	
Total Hours		**12**

Finance

Code	Title	Hours
Finance Concentration		
FINC 5310	Financial Management	3
Plus, choose 3 from the following:		9
FINC 5320	Seminar in Commercial Banking	
FINC 5333	Financial Statement Analysis	
FINC 5338	Selected Topics in Money, Capital, and Security Markets	
FINC 5340	International Finance	
FINC 5345	Seminar in Investments	
FINC 5370	Administrative Problems in Finance	
FINC 5395	Seminar in Commercial Lending	
Total Hours		**12**

Human Resource Management

Code	Title	Hours
Human Resource Management Concentration		
MGMT 5345	Seminar In Team Leadership	3
MGMT 5355	Seminar in Human Resource Management	3
MGMT 5360	Staffing Organizations	3
MGMT 5365	Seminar In Compensation Management	3
Total Hours		**12**

Management

Code	Title	Hours
Management Concentration		
MGMT 5345	Seminar In Team Leadership	3
MGMT 5390	Seminar in Strategic Management and Policy	3
SCMG 5315	Seminar Operations Management	3
Plus, choose 1 from the following:		3
MGMT 5320	Management of Innovation and Technology	
MGMT 5350	Leading Organizational Change and Development	
MGMT 5355	Seminar in Human Resource Management	
MGMT 5360	Staffing Organizations	
MGMT 5365	Seminar In Compensation Management	
SCMG 5316	Supply Chain Management	
SCMG 5318	Quality Management	
SCMG 5323	Tools of Project Management	
SCMG 5325	Project Management	
SCMG 5330	Operations Planning & Control	
Total Hours		**12**

Project Management

Code	Title	Hours
Project Management Concentration		
SCMG 5315	Seminar Operations Management	3
SCMG 5325	Project Management	3
SCMG 5327	Agile Project Management	3
Plus, choose 1 from the following:		3
SCMG 5318	Quality Management	
SCMG 5323	Tools of Project Management	
SCMG 5330	Operations Planning & Control	
Total Hours		**12**

Real Estate

Code	Title	Hours
Real Estate Concentration		
ECON 5373	Urban Economics	3
REAL 5350	Real Estate Debt	3
REAL 5351	Real Estate Equity	3
REAL 5352	Real Estate Market and Development Feasibility Analysis	3
Total Hours		**12**

Supply Chain Management

Code	Title	Hours
Supply Chain Management Concentration		
SCMG 5315	Seminar Operations Management	3
SCMG 5316	Supply Chain Management	3
Plus, choose 2 from the following:		6
MGIS 5360	Project Management for Business Systems Development	
SCMG 5318	Quality Management	
SCMG 5330	Operations Planning & Control	

SCMG 5375	Enterprise Resource Planning Business Process Integration	
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MBA is designed to prepare business professionals for leadership roles within the business, governmental, or non-profit sectors. Specific marketable skills include:

- Effective communication: Graduates will be able to demonstrate language and content that suits the intended audience and organize content in a logical sequence.
- Effective critical thinking: Graduates will be able to distinguish relevant and non-relevant information regarding a business problem and develop a valid argument in support of a conclusion.
- Effective strategic decision-making: Graduates will be able to consider different strategic options using available evidence through the lens of organizational goals and generate applicable solutions for business problems.

Master of Business Administration: Accelerated Track

The Master of Business Administration: Accelerated Track at Sam Houston State University is designed to develop candidates for positions of leadership in modern organizations. Managerial procedures and practices are continually changing. Therefore, the program emphasizes the integration and synthesis of various disciplines to develop a student's ability to function in a dynamic environment and make sound administrative decisions that maximize the value and contributions of an organization. The MBA: Accelerated Track is suited for highly motivated and qualified students from any academic discipline. The program provides the candidate with a basic managerial background through the core requirements and additional courses.

The MBA: Accelerated Track requires 30 graduate hours including 18 hours of core courses and 12 hours of additional courses.

Please see the current schedule of classes (http://www.shsu.edu/academics/current-schedule-of-classes.html) for the course offerings.

The MBA: Accelerated Track may be completed in as few as three semesters.

Admission Process Requirements

Applicants seeking admission to the Master of Business Administration: Accelerated Track must:

1. Complete the online graduate application form (http://www.shsu.edu/admissions/apply-texas.html).
2. Pay the application fee (http://www.shsu.edu/admissions/apply-texas.html).

Additionally, applicants must submit the following material directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Official transcript(s) from all previous college work (except SHSU graduates).
2. **Undergraduate GPA of 3.0 or higher.**

International Students must submit all of the above information plus:

1. Official TOEFL score of at least 79, IELTS score of at least 6.5, or Duolingo EPT score of at least 105.
2. English translations and evaluation of official transcripts.

Graduate Application Deadlines

U.S. Citizens

- Fall - August 1
- Spring - December 1
- Summer - May 15

International Students

- Fall - June 25
- Spring - November 12
- Summer - April 9

Admission Criteria

Degree from a U.S. university

- Undergraduate GPA of 3.0 or higher.

Degree from a non-U.S. university

- **Students who earned a baccalaureate degree from a university located outside of the United States must satisfy all of the following to be considered for admission into SHSU's MBA: Accelerated Track.**
  - Undergraduate GPA of 3.0 or higher as determined by independent evaluations of official transcripts.
  - TOEFL score of at least 79, IELTS score of at least 6.5, or Duolingo EPT score of at least 105.
  - English translations and evaluations of official transcripts.

Prerequisite Coursework Requirements for Non-Business Graduates

Prerequisite courses for graduate business courses are **required** for students who did not take the equivalent courses as part of their baccalaureate program or for students with a baccalaureate degree from a non-U.S. university. The graduate prerequisite courses (courses listed as 5300) **do not** apply to the 30-hour graduate credit hour requirement of the MBA: Accelerated Track degree. (Prerequisite courses can be completed through Peregrine Global Services - Business Administration Assessment. Contact advisor for details.)

Code	Title	Hours
Prerequisite Course Requirements		
ACCT 5300	Analysis of Accounting Information	3
BANA 5300	Quantitative Tools For Business	3
ECON 5300	Economic Principles And Policy	3
FINC 5300	Business Finance Environment	3
MGMT 5300	Foundations Of Strategic Management	3
Total Hours		**15**

The MBA: Accelerated Track degree program requires a minimum of thirty hours of graduate credit.

Code	Title	Hours
Master of Business Administration: Accelerated Track		
Specified Courses		
ACCT 5304	Accounting For Management	3
BANA 5368	Techniques Of Statistical Analysis	3
ECON 5357	Seminar in Managerial Economics [1]	3
FINC 5310	Financial Management	3
MGMT 5390	Seminar in Strategic Management and Policy [2]	3
MKTG 5330	Marketing Management	3
SCMG 5315	Seminar Operations Management	3
Additional Courses		
Electives or Concentration [3, 4]		9
Total Hours		**30**

1. Substitutions of other ECON courses may be allowed for students pursuing specific concentrations that require an ECON course other than ECON 5357.
2. This is a capstone course that satisfies the comprehensive exam requirement. A grade of "B" or better is required for graduation.
3. Select any 3 COBA graduate level courses, excluding prefixes with the course number 5300 or ACCT 5302. Please, be mindful that all prerequisite requirements for the selected courses must be completed.
4. Select from Concentration options below.

Concentration Options

Economics

Code	Title	Hours
Economics Concentration		
Required Courses		
Select four of the following:		12
ECON 5301	Mathematical Methods for Applied Economics	
ECON 5305	Microeconomics	
ECON 5307	Macroeconomics	
ECON 5325	Econometrics	
ECON 5340	International Economics	
ECON 5348	Development Economics	
ECON 5350	Applied Topics in Health Economics	
ECON 5351	Seminar In Labor Economics	
ECON 5352	Energy Economics	
ECON 5357	Seminar in Managerial Economics	

ECON 5360	Economic Analysis Of Strategy	
ECON 5370	Economic Theory	
ECON 5373	Urban Economics	
Total Hours		**12**

Finance

Code	Title	Hours
Finance Concentration		
Required Course		
FINC 5310	Financial Management	3
Select three from the following:		9
FINC 5320	Seminar in Commercial Banking	
FINC 5333	Financial Statement Analysis	
FINC 5338	Selected Topics in Money, Capital, and Security Markets	
FINC 5340	International Finance	
FINC 5345	Seminar in Investments	
FINC 5370	Administrative Problems in Finance	
FINC 5395	Seminar in Commercial Lending	
Total Hours		**12**

Management

Code	Title	Hours
Mangement Concentration		
Required Courses		
MGMT 5390	Seminar in Strategic Management and Policy	3
SCMG 5315	Seminar Operations Management	3
Select two of the followng:		6
MGMT 5320	Management of Innovation and Technology	
MGMT 5350	Leading Organizational Change and Development	
MGMT 5355	Seminar in Human Resource Management	
MGMT 5360	Staffing Organizations	
MGMT 5365	Seminar In Compensation Management	
SCMG 5316	Supply Chain Management	
SCMG 5318	Quality Management	
SCMG 5323	Tools of Project Management	
SCMG 5325	Project Management	
SCMG 5330	Operations Planning & Control	
Total Hours		**12**

Project Management

Code	Title	Hours
Project Managment Concentration		
Required Courses		
SCMG 5315	Seminar Operations Management	3
SCMG 5325	Project Management	3
Select two of the following:		6
SCMG 5318	Quality Management	
SCMG 5323	Tools of Project Management	
SCMG 5327	Agile Project Management	
Total Hours		**12**

Real Estate

Code	Title	Hours
Real Estate Concentration		
Required Courses		
ECON 5373	Urban Economics	3
REAL 5350	Real Estate Debt	3
REAL 5351	Real Estate Equity	3
REAL 5352	Real Estate Market and Development Feasibility Analysis	3
Total Hours		**12**

Supply Chain

Code	Title	Hours
Supply Chain Managment Concentration		
Required Courses		
SCMG 5315	Seminar Operations Management	3
SCMG 5316	Supply Chain Management	3
Select two of the following:		6
MGIS 5360	Project Management for Business Systems Development	
SCMG 5318	Quality Management	
SCMG 5330	Operations Planning & Control	
SCMG 5375	Enterprise Resource Planning Business Process Integration	
Total Hours		**12**

Note: Pending approval from the Texas Higher Education Coordinating Board.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MBA: Accelerated Track is designed to prepare business professionals for leadership roles within the business, governmental, or non-profit sectors. Specific marketable skills include:

- **Effective communication:** Graduates will be able to demonstrate language and content that suits the intended audience and organize content in a logical sequence.
- **Effective critical thinking:** Graduates will be able to distinguish relevant and non-relevant information regarding a business problem and develop a valid argument in support of a conclusion.
- **Effective strategic decision making:** Graduates will be able to consider different strategic options using available evidence through the lens of organizational goals and generate applicable solutions for business problems.

Department of Accounting

Chair: Cassy Henderson (cdh045@shsu.edu), Ph.D. (936) 294-1258

Website: Department of Accounting (http://www.shsu.edu/academics/accounting/)

Department Email: Accounting (cdh045@shsu.edu)

Vision

To be a leading professional accounting department among Texas universities providing a relevant curriculum delivered by professional faculty dedicated to teaching, research, and service.

Mission

Our mission is to prepare our students to enter the accounting profession in the public, industry, and not-for-profit sectors through excellent teaching and pedagogy and through the creation of a sound learning environment. In support of this mission, our faculty will produce intellectual contributions that contribute to the professional practice of accounting, to accounting pedagogy, and to discipline-based research. We will also maintain a level of interaction with the accounting profession that ensures the continued relevance of our program and viability of our graduates.

Highlights

The Department of Accounting works closely with external stakeholders in CPA firms, industry, government, and nonprofit organizations in order to ensure that the accounting curriculum provides students with the necessary knowledge and skill sets to successfully function as professional accountants upon graduation. Evidence of the success of this process is provided in part by the continued recruitment of SHSU accounting graduates by numerous, diverse employers.

Accounting majors participate in the annual Meet the Firms career fair held in the Fall semester. This function, which first began in 1997 and is organized by the SHSU Chapter of Beta Alpha Psi, the honor organization for financial information students and professionals, is attended by employers that are specifically, and many times solely, interested in accounting majors and, in some cases, finance majors. Accounting majors, minors, MIS majors, and finance majors from all levels attend this event to begin or to continue their participation in the recruitment and hiring process.

Career Opportunities

There are strong demands for the knowledge and skills possessed by accountants. Exciting career paths are available in public, industry, government, and nonprofit organizations. These career paths include, but are not limited to:

- Public accountant
- Tax accountant
- Cost accountant
- Government accountant
- Budget accountant
- Auditor
- Appraiser
- Budget analyst
- Credit analyst
- Financial examiner
- Tax examiner
- Revenue agent
- Educator

Uniform CPA Examination Information

The completion of the BBA in Accounting at SHSU will allow one to meet the educational requirements established by the Texas State Board of Public Accountancy (TSBPA) necessary to take the Uniform CPA examination in Texas. However, the TSBPA requires additional semester credits to be licensed as a CPA in Texas. The Department of Accounting offers the Master of Science in Accounting, whereby, a student may satisfy the further educational requirements to become licensed in the state of Texas. Students seeking additional information on the Uniform CPA Examination should check the Texas State Board of Public Accountancy homepage (http://www.tsbpa.state.tx.us/).

Graduate Program in the Department of Accounting

- Master of Science in Accounting (p. 1498)

Other Graduate Programs in the College of Business Administration

- Executive Master of Business Administration in Banking and Financial Institutions (p. 1484)
- Master of Business Administration (p. 1486)
- Master of Business Administration: Accelerated Track (p. 1491)
- Master of Science in Applied Economics (p. 1511)
- Master of Science in Project Management (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/project-management-ms/)

Student Organizations and Activities

- Association of Certified Fraud Examiners (ACFE)
- Beta Alpha Psi (BAP)
- National Association of Black Accountants (NABA)
- Student membership in the American Institute of Certified Public Accountants (AICPA)
- Student membership in the Institute of Management Accountants (IMA)
- Student membership in the Texas Society of Certified Public Accountants (TXCPA)

Internships

The Department of Accounting has an active internship program and students are encouraged to participate. Selection requirements are rigorous and involve meeting the minimum standards set by the Department of Accounting and by the hiring firm or business following an interview process. These internships must meet guidelines established by the Department of Accounting and involve specific, direct accounting training and activity beyond routine clerical and office activities to receive course credit as a general elective. While students generally participate in these internships in the latter part of their undergraduate studies, graduate students may also participate.

Scholarships

Scholarships are available on a competitive basis for accounting majors. Students are encouraged to apply for scholarships using Scholarships4Kats on the Financial Aid (http://www.shsu.edu/dept/financial-aid/scholarships/) website. The Scholarship4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. Department of Accounting scholarship recipients are announced during the Spring semester for the following academic year. The specific scholarships that are available through the Department of Accounting vary from year-to-year.

Director/Chair: **Cassy Daniels Henderson**

Ouadie Akaaboune, PHD (oxa021@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MACCY, Southern Illinois U-Carbondale; BA, Univ of Hawaii At Manoa

Leslie H Blix, PHD (lhb010@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MS, Cuny Queens College; BS, Hodges University; BA, Univ of Connecticut

Tonya J Blocker, PHD (tjb094@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Florida-Atlantic U; MS, Florida State University; BS, Florida State University

Linda G Carrington, PHD (carrington@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Univ of Maryland-College Park; MBA, Univ of Kentucky; BBA, Eastern Kentucky University

Ronald Jude Daigle, PHD (daigle@shsu.edu), *Distinguished Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Texas Tech University; BS, Univ of South Alabama

Trevor Kendrick England, PHD (txe008@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Kennesaw State University; JD, Nashville School of Law; MS, Univ of Connecticut; LLM, Univ of Alabama-Tuscaloosa; BS, Tennessee Tech University; BS, Tennessee Tech University

Cassy Daniels Henderson, PHD (cdh045@shsu.edu), *Professor and Acting Chair of Accounting*, *Department of Accounting*, PHD, Univ of Texas-El Paso; BBA, Univ of Texas-El Paso

Philip W Morris, PHD (aac_pwm@shsu.edu), *Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Univ of Houston-Clear Lake; MBA, Sam Houston State University; BBA, Sam Houston State University

Shani Nicole Robinson, PHD (snr001@shsu.edu), *Senior Associate Dean, COBA; Adjunct Faculty*, *Department of Accounting*, PHD, Univ of North Texas; MBA, Sam Houston State University; BBA, Sam Houston State University

Jeffery W Strawser, PHD (aac_jws@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BBA, Texas A&M University

William R Strawser, PHD (wxs018@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BA, Univ of Texas At Austin

Master of Science in Accounting

The Master of Science in Accounting program provides students with an advanced education needed in the accounting profession. This fully online program provides the necessary hours required to earn professional certifications and licenses such as the Certified Public Accountant (CPA) license. Graduates of the MS in Accounting program are prepared for employment opportunities in a variety of accounting career paths that include public, industry, and government/nonprofit firms.

The MS in Accounting is taught 100% online and requires thirty (30) graduate credit hours. The program can be completed in one year (12 months) by full time students who possess an appropriate undergraduate degree in accounting and who first enroll in the MS in Accounting program in either fall or summer semesters.

The MS in Accounting program allows students possessing an undergraduate degree in accounting to meet the minimum legislatively mandated requirement of 150 semester hours of college credit to be licensed as a CPA in Texas. Students seeking additional information on the Uniform CPA Examination should check the Texas State Board of Public Accountancy homepage (http://www.tsbpa.state.tx.us/).

All classes in the MS in Accounting program are taught fully online.

Mission

The MS in Accounting program prepares graduates for careers in accounting through a curriculum that provides the advanced accounting knowledge and professional skills currently demanded by employers and required to obtain professional certifications and licenses.

Vision

The MS in Accounting program provides students with a thorough grounding in the technical core competencies for entry into the accounting profession as identified by the American Institute of Certified Public Accountants (AICPA). The AICPA's Core Competency Framework identifies six technical competencies as most aligned with the value contributed by accounting professionals:

- Risk Assessment, Analysis and Management
- Measurement Analysis and Interpretation
- Reporting
- Research
- Systems and Process Management
- Technology and Tools

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/accounting/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Science in Accounting program must:

1. Complete the online graduate application form (http://www.shsu.edu/admissions/apply-texas.html).
2. Pay the application fee (http://www.shsu.edu/admissions/apply-texas.html).
3. Submit official transcript(s) from all previous college work (except SHSU graduates) directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/).

Graduate Application Deadlines

U.S. Citizens

- Fall - August 1
- Spring - December 1
- Summer - May 15

International Students

- Fall - June 25
- Spring - November 12
- Summer - April 9

Admission Criteria

1. Have a minimum overall undergraduate GPA of 3.0[1]
2. Have a minimum advanced accounting coursework GPA of 3.0[2]
3. Hold a Bachelor's degree in Accounting from a U.S. Institution

[1] The Undergraduate GPA is the GPA from courses taken at the degree granting institution. Transfer grades are not used in the computation.
[2] The advanced accounting coursework GPA is the GPA from junior- and senior- level accounting courses taken at the degree granting institution. Transfer grades are not used in this computation.

Prerequisite Coursework Requirements for Non-Business Graduates

Students seeking admission to the Master of Science in Accounting program who do not have a baccalaureate degree in accounting from an Association to Advance Collegiate Schools of Business (AACSB International) accredited university will be required to take substantial prerequisite coursework before being allowed in the MS in Accounting program. Baccalaureate degrees from foreign universities not accredited by AACSB International are treated as non-business degrees. Additionally, graduate prerequisite courses (courses listed as 5300) do not apply to the 30-hour graduate credit hour requirement of the MS in Accounting degree. Contact the graduate advisor for details.

Prerequisite Courses Required

Code	Title	Hours
Prerequisite Courses Required		
ACCT 2301	Principles of Financial Accounting	3
ACCT 2302	Principles of Managerial Accounting	3
ACCT 3313	Intermediate Accounting I	3
ACCT 3314	Intermediate Accounting II	3
ACCT 3324	Accounting Information Systems	3
ACCT 3347	Cost Accounting	3
ACCT 3353	Federal Taxation Concepts	3
ACCT 4317	Advanced Financial Accounting	3
ACCT 4372	Auditing Principles	3
BANA 3363	Inter Business Analysis	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics	3
FINC 3320	Business Finance	3
MGIS 3310	Principles of Management Information Systems (MIS)	3
MGMT 3310	Principles Of Management	3
MKTG 3310	Principles Of Marketing	3
Total Hours		**51**

Code	Title	Hours
Master of Science in Accounting		
Courses		
ACCT 5311	Advanced Financial Reporting I [1]	3
ACCT 5312	Advanced Financial Reporting II [2]	3
ACCT 5324	Information System Auditing & Assurance [1]	3
ACCT 5352	Corporate & Pass Through Entity Taxation [1]	3
ACCT 5379	Professional Ethics & Responsibility [2]	3
ACCT 5399	Advanced Auditing Theory & Practice [2,3]	3
Restricted Electives		
Select three of the following:		9
ACCT 5315	Seminar in Accounting Theory	
ACCT 5333	Financial Statement Analysis	
ACCT 5347	Managerial Accounting Application	
ACCT 5355	Personal Tax Planning	

ACCT 5357	Multijurisdictional Taxation Concepts	
ACCT 5360	Analytics in Accounting	
ACCT 5375	ERP Business Process Integration	
COBA Electives		
Select any graduate course from the College of Business Administration [4]		3
Total Hours		**30**

1 Course is only offered during the Fall semester
2 Course is only offered during the Spring Semester.
3 ACCT 5399 is the capstone course that satisfies the comprehensive exam requirement. A grade of B or better is required for graduation.
4 Any graduate course in COBA except 5300s, ACCT 5302, or ACCT 5304. Non-COBA courses must be approved by the Chair of the Department of Accounting.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Accounting is designed to provide graduates with the following marketable skills:

- Measurement Analysis and Interpretation: Our graduates will identify and apply appropriate, reliable, and verifiable measurements to analyze data for a given purpose and intended use.
- Reporting: Our graduates will identify the appropriate content and communicate clearly and objectively to the intended audience the work performed and the results as governed by professional standards required by law or dictated by the business environment.
- Research: Our graduates will identify, access, and apply relevant professional frameworks, standards, and guidance as well as other information for analysis and to make informed decisions.
- Risk Assessment, Analysis and Management: Our graduates will assess, analyze, and manage risk using appropriate frameworks, professional judgment, and skepticism for effective business management.
- Systems and Process Management: Our graduates will identify the appropriate businesses processes and system(s) and the related framework and controls to assist in the design and use of systems for efficient and effective operations.
- Technology and Tools: Our graduates will identify and utilize relevant technology and tools to analyze data, efficiently and effectively perform assigned tasks as well as support other competencies.

Department of Analytics, Information Systems, and Supply Chain

Chair: Gerald Kohers, Ph.D. (kohers@shsu.edu); (936) 294-1256

Website: Forthcoming

Vision

The Department of Analytics, Information Systems, and Supply Chain aspires to develop professionals to be leaders by offering a high quality education in business analytics by offering undergraduate major degree programs in Information Systems and Supply Chain and a Master of Science degree in Project Management (p. 1502).

Mission

The Analytics, Information Systems, and Supply Chain Department's mission is to equip students with the requisite knowledge and skills in business analytics, information systems, supply chain management, project management, and related careers. The department is committed to excellence in teaching, intellectual contributions, and service.

Graduate Programs in the Department of Analytics, Information Systems, and Supply Chain

- Master of Science in Project Management (p. 1502)
- Graduate Certificate in Project Methods and Tools (p. 1504)
- Graduate Certificate in Quality Management Tools (p. 1505)

Graduate Programs in the College of Business Administration

- Executive Master of Business Administration in Banking and Financial Institutions (p. 1484)
- Master of Business Administration (p. 1486)
- Master of Business Administration: Accelerated Track (p. 1491)
- Master of Science in Accounting (p. 1498)
- Master of Science in Applied Economics (p. 1511)

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarships4Kats (https://shsu.academicworks.com/) program on the Financial Aid (http://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. Specific to the Master of Science in Project Management (p. 1502), the Department offers a number of scholarships thanks to the Project Management Institute Houston (PMIH) Chapter. The deadline for applying for College of Business Administration scholarships is December 31.

Please see the College of Business Administration section (p. 332) for information on college and university-level scholarships.

Information forthcoming.

Master of Science in Project Management

The Master of Science in Project Management program (MS in PM) is targeted toward professionals engaged in managing the project life cycle in organizations and industries, who face challenges of introducing new products and services in rapidly changing environments.

These professionals must draw upon a host of knowledge, skills, and abilities, as well as on sophisticated technological tools and techniques, to meet project requirements. The program will enable students to develop these competencies, and prepare them for effective project management, both functionally and strategically, and will address all aspects of the product life cycle from design to delivery and cash collection.

In addition, the program will prepare students for certification by the Project Management Institute (PMI), the premier certifying organization for the project management discipline.

The MS in PM degree requires completion of 36 graduate hours and can be completed online.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/project-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Science in Project Management program must:

1. Complete the online graduate application form (http://www.shsu.edu/admissions/apply-texas.html).
2. Pay the application fee (http://www.shsu.edu/admissions/apply-texas.html).

Additionally, applicants must submit the following material directly to the Office of Graduate Admissions:

1. Official transcript(s) from all previous college work (except SHSU graduates).
2. An official GMAT score. **Undergraduate GPA of 2.75 or higher from a U. S. institution allows for a comprehensive review of academic performance and consideration for a GMAT waiver.**
3. A current resume.

Graduate Application Deadlines

U.S. Citizens

Fall - August 1
Spring - December 1
Summer - May 15

International Students

Fall - June 25
Spring - November 12
Summer - April 9

Admission Criteria

1. Meet or exceed the following admission formula:
   a. 200 (Undergraduate GPA) + GMAT Score >= 1050[1]
2. Additional Requirements (Applicants with Bachelor's Degree from Outside the U.S.)
   a. Official GMAT score of at least 500.
   b. TOEFL score of at least 79, IELTS score of at least 6.5, or Duolingo EPT score of at least 105.
   c. English translation and evaluation of Official transcripts.
3. GMAT Waiver Requests
   a. Undergraduate GPA of 2.75 or higher allows for an automatic comprehensive review of academic performance and consideration for a GMAT waiver.
   b. Three (3) years significant managerial and professional experience allows for consideration for a GMAT waiver[2]. The student may request this waiver by emailing busgrad@shsu.edu
   c. Applicants who have an undergraduate degree granted by a non-U.S. institution will be considered for a GMAT waiver.

[1] The Undergraduate GPA is the GPA from courses taken at the degree granting institution. Transfer grades are not used in the computation.

Code	Title	Hours
Master of Science in Project Management		
Specified Courses		

MGIS 5360	Project Management for Business Systems Development	3
SCMG 5315	Seminar Operations Management	3
SCMG 5318	Quality Management	3
SCMG 5323	Tools of Project Management	3
SCMG 5325	Project Management	3
SCMG 5327	Agile Project Management	3
SCMG 5395	Project Management Capstone [1]	3
Electives (Choose 5 from below)		15
Total Hours		**36**

[1] SCMG 5395 is the capstone course that satisfies the comprehensive exam requirement. A grade of B or better is required for graduation.

Code	Title	Hours
Project Managment Electives		
Select five from the following:		15
MGMT 5320	Management of Innovation and Technology	
MGMT 5345	Seminar In Team Leadership	
MGMT 5350	Leading Organizational Change and Development	
MGMT 5355	Seminar in Human Resource Management	
MGMT 5360	Staffing Organizations	
REAL 5352	Real Estate Market and Development Feasibility Analysis	
SCMG 5330	Operations Planning & Control	

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Project Management is designed to provide graduates with the following marketable skills:

- Critical thinking.
- Communication, both oral and written.
- Decision making.

Graduate Certificate in Project Methods and Tools

The curriculum for the Project Methods and Tools certificate is focused on three primary methods of project management, traditional, agile and waterfall. These methodologies provide a basis for process groups of initiating, planning, executing, monitoring and controlling, and closing projects. The tools enhance the ability of the students to perform the work needed in these process groups. For example, when planning a project, it is necessary to have a network diagram which is accomplished using a work break down (WBS) structure. A WBS is a tool that allows the project to be put into manageable pieces so that time and costs can be determined. Upon completion of this certificate, students will be able to:

a. Determine the appropriate methodology for managing a project;

b. Demonstrate the ability to use tools associated with the various methodologies; and

c. Determine which tools are necessary for the various project methodologies.

Additional Information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/project-method-and-tools/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Admission Requirements

Degree From a U.S. University

a. Undergraduate GPA[1] of 2.75.

Degree From a Non-U.S. University

a. Students who earned a baccalaureate degree from a university located outside of the United States must satisfy all of the following to be considered for admission into SHSU's MBA program.

i. GMAT score of at least 500.

ii. TOEFL score of at least 79 or IELTS score of at least 6.5, or Duolingo EPT score of at least 105.

iii. English translations and evaluations of official transcripts.

1 The undergraduate GPA is the GPA from courses taken at the degree granting institution. Transfer grades are **not** used in the computation of this undergraduate GPA.

2 The advanced hours undergraduate GPA is the GPA from junior and senior (3000 and 4000) level courses taken at the degree granting institution. Transfer grades are **not** used in the computation of this undergraduate GPA.

Code	Title	Hours
Graduate Certificate in Project Methods and Tools		
Required Courses		
MGMT 5350	Leading Organizational Change and Development	3
SCMG 5323	Tools of Project Management	3
SCMG 5325	Project Management	3
SCMG 5327	Agile Project Management	3
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Project Methods and Tools is designed to provide graduates with the following marketable skills:

- Teamwork.
- Traditional and iterative project methodologies.
- Earned Value Analysis.
- Managing change.

Graduate Certificate in Quality Management Tools

The curriculum for this certificate, Quality Management Tools, is designed to enhance the student's ability to use tools such as root cause analysis, benchmarking, affinity diagrams, and earned value analysis. Students will gain skills that will enhance their ability for planning and controlling an organization and decision-making. Upon completion of this certificate, students will be able to:

a. Analyze and interpret results using quality management tools;

b. Develop methods for planning and controlling processes;

c. Demonstrate analytic and decision-making skills; and

d. Demonstrate critical thinking and problem-solving skills.

Additional Information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/quality-management-tools/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Admission Requirements

Degree From a U.S. University

a. Undergraduate GPA[1] of 2.75 or higher.

Degree From a Non-U.S. University

a. Students who earned a baccalaureate degree from a university located outside of the United States must satisfy all of the following to be considered for admission into SHSU's MBA program.

i. GMAT score of at least 500.

ii. TOEFL score of at least 79 or IELTS score of at least 6.5, or Duolingo EPT score of at least 105.

iii. English translations and evaluations of official transcripts.

1 The undergraduate GPA is the GPA from courses taken at the degree granting institution. Transfer grades are **not** used in the computation of this undergraduate GPA.

2 The advanced hours undergraduate GPA is the GPA from junior and senior (3000 and 4000) level courses taken at the degree granting institution. Transfer grades are **not** used in the computation of this undergraduate GPA.

Code	Title	Hours
Graduate Certificate in Quality Management Tools		
Required Courses		
SCMG 5315	Seminar Operations Management	3
SCMG 5318	Quality Management	3
SCMG 5323	Tools of Project Management	3
SCMG 5330	Operations Planning & Control	3
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX** plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Quality Management Tools is designed to provide graduates with the following marketable skills:

- Analytical skills.
- Decision-making skills.
- Skills in operationalizing metrics.
- Problem-solving skills.

Department of Business Administration and Entrepreneurship

Chair: Dr. Diana Brown (dxb029@SHSU.EDU)
Phone: (936) 294-2578
Website: Department of Business Administration and Entrepreneurship

Vision

To deliver outstanding Business Administration and Entrepreneurship programs with faculty that is recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of Business Administration and Entrepreneurship is to assist in fulfilling the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The academic foundation leading to a Bachelor of Business Administration degree in Business Administration or Entrepreneurship is designed to arouse intellectual curiosity, develop analytical reasoning, and provide historical and current information relative to the global environment.

Graduate Programs

The Department of Business Administration and Entrepreneurship provides a significant portion of the curriculum for the Master of Business Administration (MBA) degree program.

Graduate Programs in the Department of Business Administration and Entrepreneurship

- Graduate Certificate in Real Estate Analysis (p. 1508)

Graduate Programs in the College of Business Administration

- Master of Science in Accounting (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/accounting/accounting-ms/)
- Master of Business Administration (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/mba/)
- Master of Business Administration: Accelerated Track (p. 1491)
- Executive Master of Business Administration in Banking and Financial Institutions (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/emba/)
- Master of Science in Applied Economics (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/economics-international-business/applied-economics-ms/)
- Master of Science in Project Management (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/project-management-ms/)

Student Organizations and Activities

- Banking and Finance Club
- Collegiate Entrepreneurs' Organization
- MBA Student Association
- The Investment Club

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarship4Kats (https://shsu.academicworks.com/) program on the Financial Aid (https://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for scholarships is February 15.

Director/Chair: **Diana Michelle Brown**

Traci Leigh Austin, PHD (tla016@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Nebraska-Lincoln; MED, Sam Houston State University; MA, University of Tulsa; BA, Univ of Nebraska-Lincoln; BA, Univ of Nebraska-Lincoln

Diana Michelle Brown, JD (dxb029@shsu.edu), *Associate Professor and Acting Chair of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BA, Rice University

Lindsay Camille Clark, PHD (lclark@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Oklahoma State University; MA, Midwestern State University; BA, Midwestern State University

Fred Allen Forgey, PHD (forgey@shsu.edu), *Associate Dean COBA*, *Department of Business Admin & Entrep*, PHD, Texas Tech University; MBA, Univ of North Texas; BBA, Univ of Texas-Arlington

Tommy J Robertson, JD (joey_robertson@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BS, Texas A&M University

Danica Lee Schieber, PHD (dschieber@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Iowa State University; MA, Minnesota State Univ-Mankato; BA, Austin Peay State University

Ashly Lynn Bender Smith, PHD (als121@shsu.edu), *Associate Professor Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Louisville; MA, New Mexico State University; BA, Texas State Univ-San Marcos

Laura Louise Sullivan, JD (lls003@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; MBA, Sam Houston State University; BBA, Univ of Houston-Main

Graduate Certificate in Real Estate Analysis

The Graduate Certificate in Real Estate Analysis provides an educational opportunity that is narrower in scope, and shorter in duration, than a degree program. It is ideal for those transitioning from one sector of real estate into real estate project feasibility analysis or those in the process of satisfying education requirements for various professional real estate designations.

Applicants seeking admission to the Graduate Certificate in Real Estate Analysis must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/admissions/apply-texas.html)
3. Official transcript (any field) from the baccalaureate degree granting institution
4. Undergraduate GPA minimum of 2.75.

Code	Title	Hours
Graduate Certificate in Real Estate Analysis		
Required Courses		
REAL 5350	Real Estate Debt	3
REAL 5351	Real Estate Equity	3
REAL 5352	Real Estate Market and Development Feasibility Analysis	3
Prescribed Electives		
Select one course from the following:		3
ECON 5373	Urban Economics	
REAL 5365	Real Estate Law	
Total Hours		**12**

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The Graduate Certificate in Real Estate Analysis is designed to provide graduates with the following marketable skills:

- Market research skills applied to commercial real estate.
- Financial analysis skills applied to commercial real estate.
- Regulatory and/or economic analysis skills applied to commercial real estate.
- Development project analysis skills applied to commercial real estate.
- Oral and written communication skills applied to commercial real estate.

Department of Economics & International Business

Chair: Mary Funck, Ph.D. (mcf012@shsu.edu); (936) 294-1277

Website: Department of Economics & International Business (http://www.shsu.edu/academics/economics-and-international-business/)

Vision

To develop outstanding Economics and International Business programs with faculty that is recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of Economics and International Business is to support the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The Department will provide curricula that promote critical thinking skills and enhance decision making abilities, which help students become productive and informed citizens. Faculty will engage in research to create and disseminate new knowledge, develop quality-teaching skills, maintain high professional standards, and actively serve the University Community.

Academic Programs

The Department of Economics and International Business offers the Master of Science in Applied Economics degree program. The department also offers a variety of graduate courses to support the Master of Business Administration, Executive MBA in Banking and Financial Institutions, Master of Science in Accounting, and the Master of Science in Project Management degree programs. See the current undergraduate catalog for details pertaining to undergraduate majors.

Graduate Program in the Department of Economics and International Business

- Master of Science in Applied Economics (p. 1511)

Graduate Programs in the College of Business Administration

- Master of Science in Accounting (p. 1498)
- Master of Business Administration (p. 1486)
- Master of Business Administration: Accelerated Track (p. 1491)
- Executive Master of Business Administration in Banking and Financial Institutions (p. 1484)
- Master of Science in Project Management (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/project-management-ms/)

Milo D. Berg, PHD (eco_mdb@shsu.edu), *Associate Professor of Business Analysis*, *Department of Economics & Intl Business*, PHD, Texas A&M University; BSB, Univ of Minnesota-Twin Cities

Cosmas B Domonaamwin Dery, PHD (cdery@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Calgary; MA, Univ of Lethbridge; BA, University of Ghana

Mark W. Frank, PHD (eco_mwf@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; BS, Texas A&M University

Fidel Gonzalez, PHD (fxg001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin

Darren P Grant, PHD (dgrant@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Florida State University; BS, Florida State University

Natalie D Hegwood, PHD (eco_ndh@shsu.edu), *Adjunct Faculty and Assistant Dean, College of Business Administration*, *Department of Economics & Intl Business*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BBA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Kevin Samuel Shaw Henning, PHD (henning@shsu.edu), *Clinical Associate Professor of Business Analysis*, *Department of Economics & Intl Business*, PHD, Texas Tech University; MS, Texas Tech University; BBA, University of The Southwest

Youn Oh Kim, PHD (younoh@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Ewha Womans Univ.

Hiranya K Nath, PHD (eco_hkn@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Southern Methodist University; MA, Southern Methodist University; MPHIL, Jawaharlal Nehru University; MA, University of Delhi; BA, University of Delhi

Vlad Marius Radoias, PHD (radoias@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Central Michigan Univ; BA, Bucharest Acad of Eco Studies

Christian Werner Raschke, PHD (raschke@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, LSU & A&M College; MS, LSU & A&M College; BS, Southeast Missouri State Univ

Raisa Tasnim Sara, PHD (rts021@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Texas A&M University; MSC, Univ of London - School Econ; BSC, Queen Mary Univ of London

Nazanin Sedaghatkish, PHD (nazanins@shsu.edu), *Assistant Professor of Economics and International Business*, *Department of Economics & Intl Business*, PHD, Virginia Polytechnic&State U; PHD, Virginia Polytechnic&State U; MSC, Sharif Univ of Technology; BS, Shahid Beheshti University

Sharmistha Self, PHD (sxs257@shsu.edu), *Professor of Economics and Dean of the College of Business Administration*, *Department of Economics & Intl Business*, PHD, Southern Illinois U-Carbondale; MA, Jadavpur University; BED, Annamalai University; BA, Jadavpur University

Markland Howard Tuttle, PHD (mht001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Tennessee-Knoxville; MBA, Sam Houston State University; BBA, Sam Houston State University

Master of Science in Applied Economics

The Master of Science in Applied Economics is designed to provide students with a solid foundation in the core economic fields, with a strong focus on evidence-based decision-making, quantitative methods, and data analysis. Students are introduced to a framework for analysis that can be applied to a variety of areas such as business and financial management, market research, international trade, public policy, health care and public health, and even criminal justice and law. The M.S. in Applied Economics provides graduates with the applied analytical skills and advanced tools needed to be competitive in today's labor market.

The MSAE is a flexible online program that is set up to accommodate full-time students as well as working professionals. The MSAE can be completed in as little as one year for those taking a full class load (four classes per long semester and two classes in the summer) or two years or more for those that prefer a slower pace.

Applicants seeking admission to the Master of Science in Applied Economics program must:

1. Complete the online graduate application form (http://www.shsu.edu/admissions/apply-texas.html).
2. Pay the application fee (http://www.shsu.edu/admissions/apply-texas.html).

Additionally, applicants must submit the following material directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Official transcript(s) from all previous college work (except SHSU graduates).
2. A current resume.

Graduate Application Deadlines

- Fall - August 1st
- Spring - December 1st

Admissions decisions are made on a rolling basis. Applicants will typically receive an admission decision within two weeks of application.

Admissions Criteria:

Admission to the program will be competitive and based on a holistic evaluation of each application. Admissions for new students will take place in Fall and Spring. The program does not have specific major or class requirements for admission.

To be considered for admission, each applicant should meet the following:

1. A baccalaureate degree from an accredited U.S. institution with one of the following:

    - A 3.0 GPA in the last 60 credits of undergraduate work (plus any completed graduate courses). The relevant GPA is the GPA from courses taken at the degree granting institution.

OR

    - An undergraduate GPA of at least 2.5 from their degree granting U.S. institution and have at least three years of relevant managerial or professional experience. This is done typically through a review of the applicant's resume. Normally, the required experience is earned after completion of the undergraduate degree. A committee will assist, if needed, in determining if the applicant's experience meets the "relevant managerial or professional experience" threshold.

2. Applicants who have an undergraduate degree from a non-U.S. institution must satisfy all of the following:

    - GRE score in the quantitative section of at least 155 or a GMAT of with a score of 34 in the quantitative section
    - TOEFL score of at least 79 or IELTS of at least 6.5
    - English translations and evaluations of official transcripts

3. Based on a review of an applicant's undergraduate transcript, the Department of Economics and International Business may require completion of specific coursework as a condition for admission. Required prerequisites include six hours of economics and six hours of quantitative courses to include mathematics, statistics, business analysis, or similar coursework, all with a letter grade of C or higher.

Code	Title	Hours
Master of Science in Applied Economics		
Specified Courses		
BANA 5368	Techniques Of Statistical Analysis	3
ECON 5301	Mathematical Methods for Applied Economics	3
ECON 5305	Microeconomics	3

ECON 5307	Macroeconomics	3
ECON 5325	Econometrics	3
Prescribed Electives		**15**
Select five from the following:		
ECON 5340	International Economics	
ECON 5348	Development Economics	
ECON 5350	Applied Topics in Health Economics	
ECON 5351	Seminar In Labor Economics	
ECON 5352	Energy Economics	
ECON 5357	Seminar in Managerial Economics	
ECON 5360	Economic Analysis Of Strategy	
ECON 5373	Urban Economics	
Total Hours		**30**

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The M.S. in Applied Economics is designed to provide graduates with the following marketable skills:

- Economic modeling of observed economic phenomena
- Data analysis
- Oral and written communication of solutions to problems
- Impact evaluation
- Coding for predictive modeling

Department of Finance and Banking

Chair: Dr. Mary Funck (mcf012@shsu.edu); (936) 294-1277
Website: Department of Finance and Banking (https://www.shsu.edu/academics/finance-and-banking/)

Vision

To deliver outstanding Banking and Finance programs with faculty who are recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of Finance and Banking is to assist in fulfilling the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The academic foundation leading to a Bachelor of Business Administration degree in Finance or in Banking and Financial Institutions is designed to arouse intellectual curiosity, develop analytical reason, and provide historical and current information relative to the global environment.

Graduate Programs

The Department of Finance and Banking, through the Smith-Hutson Chair of Banking, provides the leadership for the Executive MBA in Banking and Financial Institutions (https://www.shsu.edu/academics/banking/executive-mba-program/) program. It also provides a portion of the curriculum for the Master of Business Administration (MBA) degree program.

Graduate Programs in the College of Business Administration

- Master of Science in Accounting (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/accounting/accounting-ms/)
- Master of Business Administration (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/mba/)
- Master of Business Administration: Accelerated Track (p. 1491)
- Executive Master of Business Administration in Banking and Financial Institutions (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/emba/)
- Master of Science in Applied Economics (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/economics-international-business/applied-economics-ms/)
- Master of Science in Project Management (http://catalog.shsu.edu/graduate-and-professional/college-departments/business-administration/management-marketing-and-information-systems/project-management-ms/)

Student Organizations and Activities

- Beta Alpha Psi
- Banking and Finance Club
- MBA Student Association
- The Investment Club

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarship4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) program on the Financial Aid (http://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The priority deadline to apply for scholarships is November 1 and the final deadline is February 1. Scholarship recipients are announced in April for the following academic year.

Finance

FINC 5080. Independent Study. 1-3 Hours.
This course is designed for the directed study of individual students who wish for intensive supervision in some vital aspect of Finance. Variable Credit (1 to 3). Course Equivalents: FINC 5380
Prerequisite: BUAD 5310, FINC 5300, and approval of Department Chair and Graduate Coordinator.

FINC 5085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide graduate students exposure to new Finance topics and concepts in a course setting. Variable Credit (1 to 3). Course Equivalents: FINC 5385 .

FINC 5300. Business Finance Environment. 3 Hours.
Students examine business financial decision methods, the financial sector, and the economic and legal environment. Students are introduced to financial principles and decision techniques as well as analytical models and software tools. This course does not apply to the 36-hour graduate credit hour requirement of the MBA degree program.

FINC 5310. Financial Management. 3 Hours.
Students examine financial management in today's interdependent and integrated global environment. Topics may include managerial applications, including the use of current techniques for financial analysis, capital allocation, and capital structure.

FINC 5320. Seminar in Commercial Banking. 3 Hours.
Students study the current developments within commercial banking and examine the specific aspects of the banking industry. Both student research and case studies that emphasize managerial application of the literature reviewed are utilized.

FINC 5333. Financial Statement Analysis. 3 Hours.
Students examine how financing, investing, and operating decisions affect financial statements as well as how creditors and investors use financial statements to assess the results of managers' decisions and the effect of alternative accounting methods on the quality of financial reporting.
Prerequisite: FINC 5310 or FINC 5370.

FINC 5338. Selected Topics in Money, Capital, and Security Markets. 3 Hours.
Students engage in an in-depth topical exploration of various aspects of money, capital, and security markets. Topics are explored via analysis of current events and case studies, through examination of the intricacies of financial innovation and adaptation, and/or via individual research projects.
Prerequisite: FINC 5310.

FINC 5340. International Finance. 3 Hours.
Student apply theories of managerial and international finance to the problems of financial management in a global business environment. Topics may include investment analysis, financing choices, identification, measurement and management of foreign exchange risks, trade financing, and financial control of international operations.
Prerequisite: FINC 5310.

FINC 5345. Seminar in Investments. 3 Hours.
Student study financial securities, their valuation techniques, and the markets in which they are traded. In addition, students are provided an overview of portfolio theory and the analytical tools of portfolio management as well as the relationship between risk and return. Includes a survey of current research in investments.
Prerequisite: FINC 5310.

FINC 5370. Administrative Problems in Finance. 3 Hours.
Students review advanced finance topics in business administration and their direct application to administrative challenges. Coverage includes financial modeling with spreadsheets, advanced time value of money, analysis of the financial performance and condition of a business firm, determination of marginal cost of capital, advanced capital budgeting, cash flow analysis, working capital management, and financial policies.
Prerequisite: FINC 5310.

FINC 5390. Seminar in Business Finance. 3 Hours.
Students study theory and practice of assembling, investing, and managing capital. Major topics may include estimating a firm's cost of funds; basic and advanced capital budgeting techniques, including payback period, NPV, IRR, and MIRR; capital structure analysis; dividend policy and practice; risk management; and portfolio diversification. Cases, current developments and readings in business finance are used as appropriate.
Prerequisite: FINC 5310.

FINC 5395. Seminar in Commercial Lending. 3 Hours.
Student engage in an in-depth coverage of the current lending and regulatory issues and techniques appropriate for management of commercial lending activities in modern financial institutions. Research, readings, and case studies are employed to provide students the opportunity to apply the literature in the dynamic financial institutions industry.
Prerequisite: FINC 5310.

Courses Here.

Director/Chair: **Mary C Funck**

Director/Chair: **Kurt R Jesswein**

Jonathan P Breazeale, PHD (jpb005@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Texas A&M University; MBA, Millsaps College; BS, United States Military Academy

Xiaoman Duan, PHD (xxd002@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Oklahoma-Norman; MA, Univ of Oklahoma-Norman; BS, Nankai University

Mary C Funck, PHD (mcf012@shsu.edu), *Associate Professor of Finance and Acting Chair, Finance and Banking*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Western Illinois University; MS, Western Illinois University; BS, Western Illinois University

Jose Antonio Gutierrez, PHD (jag063@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Texas-San Antonio; MS, Univ of Texas-San Antonio; BBA, Univ of Texas-San Antonio

Kurt R Jesswein, PHD (jesswein@shsu.edu), *Associate Professor of Finance and Acting Chair, Econ & Intl Business*, *Department of Finance & Banking*, PHD, Univ of S Carolina-Columbia; MIB, Univ of S Carolina-Columbia; BBA, Univ of Wisconsin-Whitewater

Steve J Johnson, PHD (sjj008@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Utah; MS, Univ of Nebraska-Lincoln; BA, Union College

Balasundram Maniam, PHD (gba_bxm@shsu.edu), *Distinguished Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Arkansas State University; BS, Arkansas State University

Steve A Nenninger, PHD (san009@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Southern Illinois U-Carbondale; MBA, Southeast Missouri State Univ; BSBA, Southeast Missouri State Univ

Robert H Stretcher, PHD (fin_rhs@shsu.edu), *Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Tennessee-Knoxville; MBA, Univ of North Alabama; BA, Univ of Tennessee-Knoxville

Jill Sharp Vaughan, BBA (jls227@shsu.edu), *Assistant Professor of Practice and Smith-Hutson Endowed Chair of Banking*, *Department of Finance & Banking*, BBA, Sam Houston State University

Department of Management and Marketing

Chair: Irfan Ahmed, Ph.D. (mgt_ixa@shsu.edu); (936) 294-1265

Website: Forthcoming

Vision

The Department of Management and Marketing aspires to offer a high quality education in the areas of Management, Human Resource Management, and Marketing.

Mission

The mission of the Department of Management and Marketing is to equip students with the requisite knowledge and skills in management, human resource management, marketing, and related careers. The department is committed to excellence in teaching, intellectual contributions, and service.

Graduate Programs

The Department of Management and Marketing provides a significant portion of the curriculum for the Master of Business Administration (MBA) (p. 1486) degree program as well as support for the Executive MBA in Banking and Financial Institutions (p. 1484).

Graduate Programs in the College of Business Administration

- Executive Master of Business Administration in Banking and Financial Institutions (p. 1484)
- Master of Business Administration (p. 1486)
- Master of Business Administration: Accelerated Track (p. 1491)
- Master of Science in Accounting (p. 1498)
- Master of Science in Applied Economics (p. 1511)
- Master of Science in Project Management (p. 1502)

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarships4Kats (https://shsu.academicworks.com/) program on the Financial Aid (http://www.shsu.edu/dept/financial-aid/) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. Specific to the Master of Science in Project Management (p. 1502), the Department offers a number of scholarships thanks to the Project Management Institute Houston (PMIH) Chapter. The deadline for applying for College of Business Administration scholarships is December 31.

Please see the College of Business Administration section (p. 332) for information on college and university-level scholarships.

Information forthcoming.

College of Criminal Justice

Administrative Officers

Title/Department	Officer
Dean	Phillip Lyons, J.D., Ph.D. plyons@shsu.edu; (936) 294-1700
Senior Associate Dean	Danielle Boisvert, Ph.D. dxb014@shsu.edu; (936) 294-1644
Chief Executive Director, Criminal Justice Center	Randy Garner, Ph.D. rgarner@shsu.edu; (936) 294-4646
Associate Dean for Marketing and External Communications	Janet Mullings, Ph.D. icc_jlm@shsu.edu; (936) 294-3965
Associate Dean for Programs and Assessment	Erin Orrick, Ph.D. eorrick@shsu.edu; (936) 294-3643
Department of Criminal Justice and Criminology	Jason Ingram, Ph.D., Chair jri004@shsu.edu; (936) 294-1698
Criminal Justice MA and PhD Programs	Wanda Leal, Ph.D., Director wel004@shsu.edu; (936) 294-1667
Criminal Justice Online Graduate Programs	Ryan Randa, Ph.D., Director ryan.randa@shsu.edu; (936) 294-4366
Criminal Justice Undergraduate Programs	Eric Connolly, Ph.D., Director ejc025@shsu.edu; (936) 294-4941
Department of Forensic Science	Sheree Hughes, Ph.D., Chair sheree.hughes@shsu.edu; (936)-294-2608
Forensic Science Graduate Programs	J. Tyler Davidson, Ph.D., Director jtdavidson@shsu.edu; (936) 294-3202
Forensic Science Online Undergraduate Programs	Rachel Houston, Ph.D., Director rmh034@shsu.edu; (936) 294-4359
Department of Security Studies	Nadav Morag, Ph.D., Chair morag@shsu.edu; (936) 294-4128
Security Studies Graduate Programs	Nathan Jones, Ph.D., Director nxj008@shsu.edu; (936) 294-3635
Security Studies Undergraduate Programs	Magdalena Denham, Ph.D., Director magdalena@shsu.edu; (936) 294-4748
Department of Victim Studies	Shelly Clevenger, Ph.D., Chair sxc167@shsu.edu; (936) 294-3871
Victim Studies Graduate Programs	Philip Mulvey, Ph.D., Director pwm010@shsu.edu; (936) 294-4174
Victim Studies Undergraduate Programs	Katie Ratajczak, Ph.D., Director kxr084@shsu.edu; (936) 294-1662

College Mission

The College of Criminal Justice is committed to providing students with a quality liberal arts education that develops critical thinking with a particular emphasis on the scientific method. Furthermore, students will gain an appreciation of their role as criminal justice professionals and as contributing members of society. As a part of a public university, the College also is committed to producing high quality research and public service.

Contact Information
Main Office: (936) 294-1635
Graduate Programs Office: (936) 294-3637

Website
College of Criminal Justice (http://www.shsu.edu/academics/criminal-justice/)

Master's Degrees

Departments	Programs
Criminal Justice and Criminology	Criminal Justice, MS (online)
Criminal Justice and Criminology	Criminal Justice and Criminology, MA
Criminal Justice and Criminology	Criminal Justice Leadership and Management, MS (weekend or online)
Forensic Science	Forensic Science, MS
Security Studies	Business Security and Resilience, MS
Security Studies	Homeland Security Studies, MS
Victim Studies	Victim Services Management, MS (online)

Doctoral Degrees

Departments	Programs
Criminal Justice and Criminology	Criminal Justice, PhD
Forensic Science	Forensic Science, PhD

Department of Criminal Justice and Criminology

Chair: Jason Ingram (jri004@shsu.edu), PhD, (936) 294-1698

Website: Department of Criminal Justice and Criminology (http://www.shsu.edu/academics/criminal-justice-old/departments/criminal-justice-and-criminology/)

About

Be part of a top-ranked Criminal Justice and Criminology program! Our online graduate degree programs were ranked #3 in the United States in 2024 by U.S. News and World Report. Graduate programs in our department educate students with a variety of interests. Degrees target student interests that range from advancing criminal justice knowledge and practice through research to career development within the criminal justice system. Our department offers specialized graduate degree programs for criminal justice professionals to grow their leadership and management skills and broaden their knowledge base.

Faculty members in the Department of Criminal Justice and Criminology are among the most productive and skilled educators in the country. From faculty who are nationally ranked researchers to those who have extensive backgrounds as criminal justice professionals, faculty members are dedicated to guiding students through foundational courses to develop their skills in reasoning and analysis. Students have the opportunity to learn from the best in foundational areas of criminal justice, such as policing, corrections, and the law, to emerging areas of knowledge in biosocial criminology. Students interested in conducting original research can continue their education through the Ph.D. in Criminal Justice.

As a graduate student in the Department of Criminal Justice and Criminology at SHSU, the opportunities are endless:

- Learn from faculty who conduct research in all aspects of the criminal justice system
- Study in top ranked Doctoral, M.A. and online M.S. programs
- Observe valuable interaction and professional development that occurs in the College of Criminal Justice Institutes with executives in policing and corrections from across Texas and around the country
- Participate in applied, action research that has "real world" implications
- Become a member of our Graduate Student Organization
- Experience affordable living
- Competitive Scholarships and Graduate Assistantships are available

Mission

The Department of Criminal Justice and Criminology is committed to providing students with a quality liberal arts education. Students will gain an appreciation for their role as criminal justice professionals and as contributing members of society. The Department is committed to producing high quality research and to providing public service and technical assistance to communities and criminal justice agencies.

Contact Information

General Information on CJC undergraduate programs: CJ Advising (https://www.shsu.edu/centers/sam-center/schedule-appointment/), SAM Center (https://www.shsu.edu/centers/sam-center/) or 936-294-4444

General Information on CJC graduate programs: Aarianna Longino (https://www.shsu.edu/academics/criminal-justice/about/directory.html?mode=view&item=320), Graduate Coordinator, 936-294-1695

Department of Criminal Justice and Criminology Administration:

- Dr. Jason Ingram (https://www.shsu.edu/academics/criminal-justice/about/directory.html?mode=view&item=398), Chair, 936-294-1698
- Dr. Wanda Leal (https://www.shsu.edu/academics/criminal-justice/about/directory.html?mode=view&item=509), Director of CJC Graduate Programs (MA and PhD programs), 936-294-1667
- Dr. Ryan Randa (https://www.shsu.edu/academics/criminal-justice/about/directory.html?mode=view&item=311), Director of CJC Online Graduate Programs (MS in CJ, MS in CJ Leadership & Management, and certificate in CJ Leadership & Management), 936-294-4366
- Dr. J (wel004@shsu.edu)avier Ramos (https://www.shsu.edu/academics/criminal-justice/about/directory.html?mode=view&item=477), Director of Academic Programs, 936-294-4361

Academic Programs

The Department of Criminal Justice and Criminology offers a Ph.D. in Criminal Justice, three distinct degrees at the master's level, and a graduate certificate in Criminal Justice Leadership and Management. The Department offers online criminal justice degree programs for a range of prospective students.

For a listing of the programs offered within the Department of Criminal Justice and Criminology, please reference the Programs tab on this page.

Highlights

SHSU's College of Criminal Justice has been consistently ranked among the top criminal justice programs in the nation in both value and quality by U.S. News & World Report, the Journal of Criminal Justice, BestColleges.com, and many other publications.

- Doctor of Philosophy in Criminal Justice (p. 1523)
- Master of Arts in Criminal Justice and Criminology (p. 1524)
- Master of Science in Criminal Justice (p. 1525)
- Master of Science in Criminal Justice Leadership and Management (p. 1526)
- Graduate Certificate in Criminal Justice Leadership and Management (p. 1528)

Student Organization and Activities

Graduate Student Organization (GSO)

The mission of GSO is to bring together graduate students at the College of Criminal Justice; to facilitate and encourage research and theory development related to criminal justice; to encourage appropriate and effective teaching techniques and practices for criminal justice courses; and to serve as a resource network for and to encourage interaction among the various entities within the College of Criminal Justice. See the College of Criminal Justice GSO (https://www.shsu.edu/academics/cj-crim/orgs.html) website for additional information.

Scholarships

Scholarships, assistantships, and financial assistance are available. Student assistantships and scholarships are awarded on a competitive basis based upon academic performance, GRE scores, letters of recommendation, among other factors.

Financial awards are available, including out-of-state tuition waivers. University policy requires all students to pay in-state tuition.

Information on specific scholarships available in the College of Criminal Justice are available through J (cutty@shsu.edu)ackie Chavarria at (936) 294-3755. Potential graduate students should contact Aarianna Longino at 936-294-1695. See also the College of Criminal Justice section for information on College and University level scholarships.

Director/Chair: **Jason R Ingram**

Heather Ann Alaniz, PHD (haa034@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Texas Southern University; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Andia B Azimi, PHD (axa205@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BS, Georgia State University

Timothy Barnum, PHD (txb073@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Saint Ambrose; BA, Valparaiso University

Sean James Blinn, MA (sjb094@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MA, Penn State University; MS, Univ of Scranton; BA, The King's College; BA, The King's College; DCJ, California Un of Pa

Danielle Lynne Boisvert, PHD (dxb014@shsu.edu), *Professor of Criminal Justice and Criminology; Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MFS, George Washington University; BS, University of Western Ontario

Eric J Connolly, PHD (ejc025@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Univ of North Alabama; BA, West Virginia University

Jay O Coons, PHD (stdjoc12@shsu.edu), *Assistant Professor of Practice of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Sam Houston State University; BS, Sam Houston State University

Miltonette Olivia Craig, PHD (moc006@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; JD, Georgia State University; MS, Florida Int'L Univ; BA, Spelman College; BA, Spelman College

Jane C Daquin, PHD (jxd161@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BA, University of Albany, Suny; BA, University of Albany, Suny

Ashley Kay Fansher, PHD (afansher@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University

Randall L Garner, PHD (rgarner@shsu.edu), *Professor of Criminal Justice and Criminology and Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Houston-Main; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Jurg Gerber, PHD (icc_jxg@shsu.edu), *Professor Emeritus of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Eastern Washington University

Elizabeth Noel Hartsell, PHD (enh033@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Florida; MA, Univ of Florida; BA, North Carolina State Univ

Shaina Marie Herman, PHD (sxh169@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, University of Albany, Suny; MA, University of Albany, Suny; BA, Indiana Univ of Pa

Laura Theresa Iesue, PHD (lti002@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Miami; MA, New Mexico State University; BS, Ohio State University

Jason R Ingram, PHD (jri004@shsu.edu), *Professor and Chair of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MA, Southern Illinois U-Carbondale; BA, Southern Illinois U-Carbondale

Bit Na Kim, PHD (bitna.kim@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MA, Chungbuk National University; BA, Chungbuk National University

Alexander Boone Kinney, PHD (akinney@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Arizona; MA, Univ of Arizona; BA, Penn State University

Stuti Subbaiah Kokkalera, PHD (sxk078@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Northeastern University; LLM, Georgetown University; LLB, Gujarat University

Wanda Edelis Leal, PHD (wel004@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BS, Florida State University

Heejin Lee, PHD (heejin.lee@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; LLB, Korean National Police Univers

Peter Scott Lehmann, PHD (psl003@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Furman University

Phillip Mitchell Lyons, PHD (icc_pml@shsu.edu), *Professor of Security Studies; Dean, College of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Lincoln; JD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BS, Univ of Houston-Clear Lake

Holly A Miller, PHD (psy_ham@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MA, Morehead State University; BA, Bethel College

Stephen Lee Morrison, PHD (sxm130@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Southern Mississippi; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Chelsey Samara Narvey, PHD (cxn042@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; BA, Concordia University

John Charles Navarro, PHD (jxn044@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Louisville; MS, Illinois State University; BS, Illinois State University

Brooke Elizatbeth Nodeland, PHD (ben012@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of North Texas; BS, Univ of North Texas

Willard M Oliver, PHD (icc_wmo@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, West Virginia University; MA, West Virginia University; MS, Radford University; BS, Radford University

Erin Anderson Orrick, PHD (eorrick@shsu.edu), *Professor and Associate Dean of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MA, Univ of Maryland-College Park; BSCJ, Texas Christian University

Javier Ramos, PHD (jxr248@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Univ of Texas At Austin

Ryan Wayne Randa, PHD (rxr042@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; BS, Univ of Wisconsin-Superior

Mitchel P Roth, PHD (icc_mpr@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Santa Barbara; MA, Univ of Calif-Santa Barbara; BA, Univ of Maryland-College Park

Danielle Sheldon Rudes, PHD (drudes@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; MA, Univ of New Orleans; BA, Suny At Plattsburgh

Mark Christopher Saber, PHD (marksaber@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; MA, Univ of Texas-Arlington; BA, Univ of Texas-Arlington

Michael Scott Vaughn, PHD (msv002@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, University of Central Missouri; BS, University of Central Missouri

William M Wells, PHD (wmw005@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Indiana University-Bloomington; BA, Ohio University

Yan Zhang, PHD (icc_yxz@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MS, Michigan State University; MS, Michigan State University; BS, Wuhan University

Jihong Zhao, PHD (jxz006@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Shanghai Inst of Higher Edu

Ph.D. in Criminal Justice

The degree of Doctor of Philosophy in Criminal Justice is designed to produce students of crime and justice who possess: (1) a thorough understanding of criminal justice and criminological issues, (2) the intellectual and methodological skills necessary for the continuing process of discovery and understanding of crime- and justice-related issues, (3) the capacity for integrative and analytical thinking, (4) competency at transmitting knowledge, (5) problem-solving skills, and (6) the ability to disseminate research findings through published scholarship.

The Department of Criminal Justice and Criminology has a faculty of scholars committed to the study of a broad-range of crime and justice issues. The curriculum includes courses that provide theoretical and applied knowledge of the phenomena of crime and criminal justice. In addition to the demonstration of excellence in the classroom, students are expected to engage in research in accordance with personal specialized interests beyond specified courses.

Through the combined efforts of faculty and students, the Doctor of Philosophy program in Criminal Justice produces students capable of making contributions to criminal justice and criminology through the academic and applied components of the discipline. The curriculum is designed to ensure that graduates are well equipped to participate in criminological positions emphasizing research and statistics, theory, and administration.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/criminal-justice/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the doctoral program in criminal justice must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

- Graduate application (http://www.shsu.edu/admissions/apply-texas.html)
- Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
- A master's degree in Criminal Justice or an allied field.
- Official test scores from the Graduate Record Examination OR a writing sample*.
- Official undergraduate and graduate transcripts for all academic work (Note: Grades must show evidence of the ability to do doctoral level work).
- Three letters of recommendation, preferably from faculty who are sufficiently acquainted with the student to comment on potential for success in the doctoral program.
- Doctoral follow-up application (http://www.shsu.edu/academics/criminal-justice/resources/documents/grad-add_doctoral-app.pdf)
- A personal essay as described in the doctoral follow-up application.
- A current resume or vita.

International students ONLY: Test of English as a Foreign Language (TOEFL) unless they have completed a degree in the United States Note: A minimum score of 550 (paper-based), 213 (computer-based), 79 (internet-based) is required.

*Applicants can choose to submit either test scores from the Graduate Record Examination OR a writing sample.

A review of each student's application will be completed on a competitive basis. The deadline for submitting applications to the Doctor of Philosophy program in Criminal Justice is January 15 for the fall semester.

Students should consult with the criminal justice Graduate Program Director to design a course of study that will provide in-depth knowledge in the areas of research and statistics, criminological theory, and criminal justice administration.

Students must follow the doctoral program student schedule and maintain a 3.0 grade point average in all courses.

Students must pass the doctoral qualifying examination in the form of a Research Assessment Portfolio. Students must also complete and defend a doctoral dissertation, which is the product of original scholarly research and is of such quality as to represent a meaningful contribution to knowledge in the field of criminal justice/criminology.

The Doctoral degree requires 57 hours of 7000-level coursework.

Code	Title	Hours
Ph.D. in Criminal Justice		
Required Courses		
CRIJ 7333	Proseminar In Criminal Justice Issues	3
CRIJ 7337	Criminological Theory	3
CRIJ 7340	Administration of Justice	3
CRIJ 7342	Advanced Statistics I	3
CRIJ 7387	Research Design	3
CRIJ 7373	Research Practicum [1]	6
Prescribed Electives		

Select two of the following:		6
CRIJ 7334	Seminar In American Policing	
CRIJ 7336	Seminar In American Correction	
CRIJ 7338	Seminar In American Courts	
CRIJ 7375	Seminar in Legal Aspects of Criminal Justice	
Select six 7000-level graduate courses in CRIJ of which two (6 hours) must be advanced methods and/or statistics courses		18
Dissertation		
CRIJ 8396	Dissertation	3
CRIJ 8397	Dissertation II	3
CRIJ 8398	Dissertation III	3
CRIJ 8099	Dissertation IV [2]	3
Total Hours		**57**

[1] Students must repeat this course for a total of 6 credit hours

[2] Once enrolled in CRIJ 8099, students must enroll in this course in every semester until graduation. (See note below).

Note: Graduate students will take dissertation classes for three credit hours until they have completed the degree requirements (12 hours total). Students may then sign up for one credit hour for continuous enrollment. Students do not have to sign up for dissertation classes during the summer if they are not working on their dissertation or if they are not graduating. If students do not stay continuously enrolled, they will be retroactively enrolled in one semester hour and will be charged for the course.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Ph.D. in Criminal Justice is designed to provide graduates with the following marketable skills:

- Advanced oral and written communication skills.
- Advanced quantitative and qualitative research skills.
- Advanced statistical skills with the ability to supply and interpret results.
- Comprehensive knowledge of current criminal justice issues.
- Conduct original empirical research and present findings via publications, reports, and/or presentations.
- Prepare and/or deliver undergraduate and graduate courses for independent instruction (on-line and/or in-residence).

Master of Arts in Criminal Justice and Criminology

The Master of Arts in Criminal Justice and Criminology degree is designed to prepare graduate students to conduct research and actively participate in the development of knowledge in the areas of criminological theory and criminal justice issues. Students who are planning careers in law enforcement, corrections or rehabilitation, or who wish a deeper understanding of crime and the criminal justice system should confer with the Graduate Program Advisor to develop a combination of elective courses that will support their particular career interests. Students seeking this degree are frequently candidates to pursue the Ph.D. in Criminal Justice.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/criminal-justice-and-criminology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Admission to the Master of Arts program is based on the Admissions Committee's assessment of the applicant's writing sample OR scores on the Graduate Record Examination, the undergraduate academic record, the applicant's personal statement, and letters of recommendation preferably from undergraduate professors. Please submit all documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html).

Admission considerations include the following:

1. Graduate application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcripts of all academic work previously undertaken, including the undergraduate degree granted from an accredited institution in criminal justice or an allied field
4. GPA of 3.0 or higher
5. Test scores from the Graduate Record Examination OR a writing sample*
6. Three letters of recommendation preferably from undergraduate professors

7. A personal essay (http://www.shsu.edu/academics/criminal-justice/resources/documents/grad-essay-ma.pdf) of the applicant's career goals and aspirations
8. **International students ONLY**: Test of English as a Foreign Language (TOEFL)—a minimum score of 550 (paper-based), 213 (computer-based), or 79 (internet-based) is required.

*Applicants can choose to submit either tests scores from the Graduate Record Examination OR a writing sample.

A review of each student's application will be completed on a competitive basis.

The deadline for submitting applications to the Master of Arts program is February 1 for the fall semester.

The Master of Arts degree in Criminal Justice and Criminology is a 36-hour degree which includes a thesis. Students must follow the Master of Arts schedule and maintain a 3.0 GPA in all courses.

Code	Title	Hours
Master of Arts in Criminal Justice and Criminology (Thesis)		
Required Courses		
CRIJ 5330	Critical Analysis Of Justice Administration	3
CRIJ 5332	Perspectives In Criminology	3
CRIJ 5392	Survey Of Research Methods	3
CRIJ 6385	Statistics For Criminal Justice Research	3
CRIJ 6398	Research & Writing in CJ	3
Prescribed Electives		
Select five of the 5000/6000 level graduate courses in CRIJ		15
Thesis		
CRIJ 6099	Thesis [1]	6
Total Hours		**36**

[1] Once enrolled in CRIJ 6099, students must enroll in this course in every semester until graduation. (See note below).

Notes

Graduate students will take thesis classes for 3 credit hours until they have completed the degree requirements (6 hours total for thesis).

Students may then sign up for 1 credit hour for continuous enrollment.

Students do not have to sign-up for thesis classes during the summer if they are not working on their thesis or if they are not graduating.

If students do not stay continuously enrolled, they will be retroactively enrolled in 1 semester hour and will be charged for the course.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Criminal Justice and Criminology is designed to provide graduates with the following marketable skills:

- Oral and written communication skills.
- Quantitative and/or qualitative research skills.
- Statistical skills with the ability to interpret results.
- Knowledge of current criminal justice issues.
- The ability to conduct original research and present findings via publications, reports, and/or presentations.

Master of Science in Criminal Justice

In 2024, *U.S. News & World Report* ranked our online Master's degree programs #3 in the United States for Criminal Justice. The online Master of Science program in Criminal Justice is designed primarily for persons, regardless of prior academic or work experience in criminal justice, who are seeking a terminal master's degree and do not intend to continue to the Ph.D. level. The degree program works well for nontraditional students who have full-time jobs because it is available via distance education. Courses are sequenced so that students can complete the degree in no more than two years, including summer semesters, but may be able to do so in less time. The degree program prepares students to work in various areas of the criminal justice system including, but not limited to, field positions, administration, organizational management, and social services. Students who are potentially interested in applying for the Ph.D. program should apply for the Master of Arts in Criminal Justice and Criminology.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/criminal-justice/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the Master of Science in Criminal Justice program are on a rolling basis, where the summer semester deadline is May 15, fall semester deadline is August 1, and the spring semester deadline is December 15.

Please submit all documents to the Office of Graduate Admissions. (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html) Admission considerations include:

1. Graduate application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Unofficial transcripts of all academic coursework previously undertaken, including an undergraduate degree from an accredited academic institution in criminal justice or an allied field. Minimum overall undergraduate GPA of 2.5 or 2.8 in the last 60 credit hours.*
4. **International students ONLY**: Test of English as a Foreign Language (TOEFL) — a minimum score of 550 (paper-based), 213 (computer-based), or 79 (internet-based) is required.

*Applicants may submit unofficial transcripts for review by the admission committee. However, under university policy, admissions decisions are contingent upon receipt of official transcripts.

A review of each student's application file will be completed with admission offered on a competitive basis.

The MS in Criminal Justice does not require a thesis; however, the student must complete a capstone course (CRIJ 6388) in their final semester with a grade of B or better to satisfy the University's comprehensive exam requirement. Students should seek advisement from the Criminal Justice Graduate Admissions Coordinator in planning a course of study. The Master of Science degree in Criminal Justice is a 36-hour degree

Code	Title	Hours
Master of Science in Criminal Justice		
Required Courses		
CRIJ 5330	Critical Analysis Of Justice Administration	3
CRIJ 6333	Seminar In Organization and Administration	3
CRIJ 6334	Research Methods and Quantitative Analysis	3
CRIJ 6336	Computer/Technology Applications For Criminal Justice	3
or CRIJ 6387	The Ethics Of Criminal Justice	
CRIJ 6365	Community Theory and the Administration of Justice	3
CRIJ 6388	Emergent Issues In Criminal Justice Leadership [1]	3
CRIJ 6392	Program Evaluation In Criminal Justice	3
Prescribed Electives		
Select five 5000-6000 level graduate courses in CRIJ		15
Total Hours		**36**

[1] A grade of B or better in CRIJ 6388 is required for graduation.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Criminal Justice is designed to provide graduates with the following marketable skills:

- Communication.
- Critical thinking.
- Understanding of social issues.
- Problem solving.
- Team work.

Master of Science in Criminal Justice Leadership and Management

The Master of Science in Criminal Justice Leadership and Management degree is designed for individuals in management positions in criminal justice agencies or those who have a reasonable expectation of being promoted to such a position. The degree program serves practitioners whose occupations or other commitments prevent them from returning to campus as full-time students. The program was developed to allow those with full-time employment the opportunity to earn a Master of Science degree in Criminal Justice Leadership and Management within two years. The degree is

offered online. Typically, the online format requires students to complete two consecutive 7.5 week courses each semester, resulting in 18 credit hours per year.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/criminal-justice-leadership-and-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Please submit all documents to the University Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html). Admission considerations include the following:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. An undergraduate degree from an accredited institution in an allied field.
4. Unofficial transcripts of all academic coursework previously undertaken. A cumulative undergraduate degree grade point average of 2.5 or 2.8 for the final 60 baccalaureate credits.*
5. Resume
6. A personal essay regarding career background and goals.
7. Evidence of current employment in a criminal justice related agency with a minimum of three years of criminal justice experience.
8. **International students ONLY**: Test of English as a Foreign Language (TOEFL). A minimum score of 550 (paper-based), 213 (computer-based), or 79 (internet-based) is required.

*Applicants may submit unofficial transcripts for review by the admission committee. However, under university policy, admissions decisions are contingent upon receipt of official transcripts.

A review of each student's application will be completed on a competitive basis.

The Master of Science in Criminal Justice Leadership and Management is a 36-hour degree program. No thesis is required, but the student must complete a capstone course (CRIJ 6388) with a grade of B or better to satisfy the University's comprehensive examination requirement.

Code	Title	Hours
Master of Science in Criminal Justice Leadership and Management (Non-thesis)		
Specified Courses		
CRIJ 6333	Seminar In Organization and Administration	3
CRIJ 6334	Research Methods and Quantitative Analysis	3
CRIJ 6335	Seminar In Leadership and Management	3
CRIJ 6363	Leadership Psychology In Criminal Justice Management	3
CRIJ 6388	Emergent Issues In Criminal Justice Leadership [1]	3
CRIJ 6392	Program Evaluation In Criminal Justice	3
CRIJ 6396	Legal Aspects Of Criminal Justice Management	3
Prescribed Electives		
Select five of the following:		15
CRIJ 5330	Critical Analysis Of Justice Administration	
CRIJ 6332	Resource Development in the Organizational Context	
CRIJ 6339	Police In Society	
CRIJ 6365	Community Theory and the Administration of Justice	
CRIJ 6372	Seminar In Criminology and Corrections	
CRIJ 6387	The Ethics Of Criminal Justice	
CRIJ 6394	Special Topics-Criminal Justice	
Total Hours		**36**

[1] Taken during the FINAL or graduating semester. A grade of B or better in CRIJ 6388 is required for graduation.

Note: Please refer to the Department of Criminal Justice and Criminology webpage for additional information, including course sequencing and scheduling.

Recommended Course Sequence

Below is the recommended course sequence offered by semester. Courses will only be offered in the semester listed. Students are advised to follow the sequence and may have to wait until the semester a course if offered if they deviate from the schedule below.

First Year					
Fall	**Hours**	**Spring**	**Hours**	**Summer**	**Hours**
CRIJ 5330		3 CRIJ 6334		3 CRIJ 6332	3
CRIJ 6333		3 CRIJ 6363		3 CRIJ 6365	3
		6		**6**	**6**
Second Year					
Fall	**Hours**	**Spring**	**Hours**	**Summer**	**Hours**
CRIJ 6335		3 CRIJ 6387		3 CRIJ 6394 (*Legacy of Leadership)	3
CRIJ 6396		3 CRIJ 6392		3 CRIJ 6388	3
		6		**6**	**6**

Total Hours: 36

*Special Topics may change as deemed necessary.

Departmental substitutions for electives may be allowed if approved by the Program Director.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Criminal Justice Leadership and Management is designed to provide graduates with the following marketable skills:

- Leadership knowledge, skills, and abilities.
- Oral and written communication.
- Critical thinking.
- Self-awareness and understanding social dynamics.
- Problem-solving.

Graduate Certificate in Criminal Justice Leadership and Management

The online Criminal Justice Leadership and Management Certificate is an 18-hour program catering to working professionals currently in the field of criminal justice. The certificate provides an opportunity for students to advance professional growth and career development while maintaining their occupational responsibilities. The certificate is structured to allow students to complete the program in one year, enrolling in two 7-1/2 week courses per semester. Completion of the online Graduate Certificate also advances students halfway towards a Master of Science in Criminal Justice Leadership and Management.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/criminal-justice-leadership-and-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Criminal Justice Leadership and Management must submit the following directly to the University Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. An undergraduate degree from an accredited institution in an allied field.
4. Unofficial transcripts of all academic work previously undertaken. A cumulative undergraduate degree grade point average of 2.5 or 2.8 for the final 60 baccalaureate credits.*
5. A completed Department of Criminal Justice and Criminology Master's Degree Applicant Questionnaire/Form.
6. Resume
7. A personal essay regarding career background and goals.
8. Evidence of current employment in a criminal justice related agency with a minimum of one year of criminal justice experience.
9. **International students ONLY**: Test of English as a Foreign Language (TOEFL). A minimum score of 550 (paper-based), 213 (computer-based), or 79 (internet-based) is required.

*Applicants may submit unofficial transcripts for review by the admission committee. However, under university policy, admissions decisions are contingent upon receipt of official transcripts.

A review of each student's application will be completed on a competitive basis.

Code	Title	Hours
Graduate Certificate in Criminal Justice Leadership and Management		
Specified Courses		
CRIJ 5330	Critical Analysis Of Justice Administration (required)	3
CRIJ 6333	Seminar In Organization and Administration (required)	3
Prescribed Electives		
Select four of the following:		12
CRIJ 6332	Resource Development in the Organizational Context	
CRIJ 6334	Research Methods and Quantitative Analysis	
CRIJ 6339	Police In Society	
CRIJ 6363	Leadership Psychology In Criminal Justice Management	
CRIJ 6365	Community Theory and the Administration of Justice	
CRIJ 6372	Seminar In Criminology and Corrections	
CRIJ 6392	Program Evaluation In Criminal Justice	
CRIJ 6396	Legal Aspects Of Criminal Justice Management	
Total Hours		**18**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Criminal Justice Leadership and Management is designed to provide graduates with the following marketable skills:

- Leadership knowledge, skills, and abilities.
- Oral and written communication.
- Critical thinking.
- Self-awareness and understanding social dynamics.
- Problem-solving.

Department of Forensic Science

Chair: Sheree Hughes (sheree.hughes@shsu.edu), Ph.D.
(936)-294-2608

Website: Department of Forensic Science (http://forensics.shsu.edu/)

Mission

Our mission is to foster the principles and enhance the practice of forensic science through exceptional education, pioneering research, professional development, and dedicated service. We aim to prepare students for successful careers in forensic science, advancing the field through innovation, research, and service to the forensic science community.

Vision

The Department of Forensic Science at SHSU envisions to be a global leader in forensic science education, research, and training, recognized for our collaborative and multidisciplinary approach. By fostering innovation and partnering with industry to drive improvement and ethical practice, we will equip our students with the knowledge, skills, and abilities that are fundamental for scientific problem solving and necessary to contribute significantly to the forensic science community and the criminal justice system.

About

The College of Criminal Justice's Department of Forensic Science is rich in history yet heavily geared toward the future. The Department of Forensic Science at SHSU was the first to offer an accredited Master of Science in Forensic Science (https://www.shsu.edu/programs/graduate/forensic-science/) in Texas and the first multi-disciplinary PhD in Forensic Science (https://www.shsu.edu/programs/doctorate/forensic-science/) in the United States.

Graduates from our MS and PhD programs have placement rates consistently over 90% in forensic science laboratories and research positions across the nation. Students have access to the latest scientific equipment found in crime laboratories and engage with faculty who have real-word experience in forensics. The College of Criminal Justice also operates the Southeast Texas Applied Forensic Science Facility (https://www.shsu.edu/centers/stafs/) (STAFS) - one of a small number of willed body donor facilities in the nation, and the Institute for Forensic Research, Training and Innovation (http://www.ifrti.org/) (IFRTI), which offers professional development and unique, industry-driven research opportunities to students, practitioners, and the broader forensic community.

From the laboratory to the courtroom and everything in between, the Department of Forensic Science has the tools you need to build a career in forensic science.

Academic Programs

The Department of Forensic Science offers a minor, a master's degree, and a doctoral degree. For a listing of the programs offered within the Department of Forensic Science, please, reference the Programs tab in the respective catalog.

Highlights

The **MS in Forensic Science** is accredited by the Forensic Science Education Programs Accreditation Commission (FEPAC (http://fepac-edu.org/)). The program itself was established in 2001 and was the very first accredited program in Texas. This **full-time, face-to-face** program gives students the flexibility to tailor a degree toward their individual interests and professional goals while working in a state-of-the art scientific facility. We have been preparing students for careers in forensic science for over a decade, with proven success. **Postgraduate success (https://www.shsu.edu/academics/forensic-science/documents/success.pdf) (indicated by successful employment or postgraduate placement in forensic science) averaged more than 95% over the past ten years.**

Sam Houston State University offers a **PhD in Forensic Science** for those seeking leadership positions or intending to pursue careers in research or education. The doctoral program at SHSU is an interdisciplinary science degree designed for **full-time, face-to-face** study, typically completed in about five years.

Faculty in the Department of Forensic Science are **engaged scholars** and **forensic practitioners**. Their real-world experience and participation in forensic reform efforts at the state and national level promote a forward-looking profession and the next generation of forensic scientists.

Career Opportunities

The forensic science programs are designed to prepare graduates for successful careers in forensic science and related professions. Students not only develop scientific understanding essential to forensic science, but also acquire the practical skills, knowledge and problem-solving abilities that will help them advance into leadership positions. The graduate programs in forensic science offer extensive hands-on and laboratory instruction. Students acquire the practical skills that are sought after by potential employers and are exposed to consensus-based scientific standards in forensic science.

- Doctor of Philosophy in Forensic Science (p. 1532)
- Master of Science in Forensic Science (p. 1534)

Student Organizations and Activities

- Society of Forensic Science
- Graduate Student Organization (Criminal Justice)

Internships

The Department of Forensic Science partners with numerous accredited crime laboratories and medical examiner's offices for forensic science internships throughout the United States. All students enrolled in one of the graduate programs must successfully complete a forensic science internship. The department does not facilitate internships for students outside the MS and PhD programs in the Department of Forensic Science.

Scholarships

Scholarship opportunities, assistantships, and financial assistance are available. Student assistantships and scholarships are awarded on a competitive basis based upon academic performance, GRE scores, letters of recommendation and previous laboratory experience.

Financial awards are available, including out-of-state tuition waivers. University policy requires all students to pay in-state tuition.

Information on graduate assistantships is available by contacting Kristin Ware (kware@shsu.edu) in the Department of Forensic Science at (936) 294-2517.

Information on specific scholarships available in the College of Criminal Justice are available through Scholarships4Kats. (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Director/Chair: **Sheree Robyn Hughes**

Patrick Buzzini, PHD (patrick.buzzini@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Lausanne; MS, University of Lausanne

Jay Tyler Davidson, PHD (jxd115@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, West Virginia University; MS, West Virginia University; BS, Shippensburg University

Eduardo Geraldo de Campos, PHD (exg248@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Sao Paulo; MS, University of Sao Paulo; BS, University of Sao Paulo

Rachel Michelle Houston, PHD (rmh034@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Univ of Texas At Dallas

Sheree Robyn Hughes, PHD (sxh039@shsu.edu), *Professor and Chair of Forensic Science*, *Department of Forensic Science*, PHD, Bond University; BS, University of Queensland (The)

Timothy S. Kalafut, PHD (tim.kalafut@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Texas A&M University; BA, Whitworth College

Mayra Alexandra Mayr-Eduardoff, PHD (mayra.eduardoff@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Medical University of Innsbruck; MSC, University of Innsbruck; BA, University of Sussex (UK)

Geraldine Isabelle Christ Monjardez, PHD (g.monjardez@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Manchester; MS, Cranfield University; BS, University of Cent Lancashire

Britni Nicole Skillman, PHD (bns017@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Sam Houston State University

Chi Chung Yu, PHD (jornyu@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, Carleton University; MS, Central Police University; BS, Central Police University

Ph.D. in Forensic Science

Mission

The mission of the PhD in Forensic Science program is to develop visionary professionals in forensic science who are equipped with exceptional critical thinking abilities, advanced problem-solving skills, and in-depth discipline-specific knowledge who can independently translate principles into practice. Through rigorous academic coursework, research excellence, and interdisciplinary collaboration, we prepare our graduates to excel in leadership positions where they can significantly contribute to the advancement of forensic science, its application, and communication in the justice system.

This is accomplished by demonstrating the ability to perform independent, original research; the successful completion of multidisciplinary academic coursework; hands-on experience in the laboratory; and collaboration with accredited forensic laboratories, institutes, and partners.

Educational Objectives

1. Provide students the knowledge, skills, and abilities to prepare them for successful careers in forensic science.
2. Develop students' critical thinking ability, problem-solving skills, and advanced discipline-specific knowledge.
3. Produce high quality graduates capable of advancement into leadership positions.
4. Engage in collaborative research that demonstrates industrial relevance and wider scientific awareness.

The PhD in Forensic Science requires the completion of 86 credit hours beyond the bachelor's degree. Students complete:

Code	Title	Hours
Requirements		
Core Coursework		43
Dissertation Research		15
Electives [1]		28
Total Hours		**86**

[1] Dissertation research hours may be substituted for electives (15 SCH maximum) with approval of the Department Chair.

The curriculum is designed to deliver an essential core curriculum in forensic science, together with specialized electives and intensive research in the area of interest. Students are expected to fulfill the requirements during approximately five years of full-time study.

Students with an MS in Forensic Science from a FEPAC-accredited institution may be eligible to transfer credit towards the eighty-six credit hour requirement.

Program Breakdown

Degree Type	Doctor of Philosophy (Ph.D.)
Length	86 credit hours
Enrollment	Fall
Tuition/Costs	Rates per Semester

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/forensic-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Review of applications and offers of admission will begin Jan. 15 and proceed until enrollment openings are filled. A holistic review of each student's application will be completed on a competitive basis. All applicants are automatically considered for graduate assistantships in the Department of Forensic Science.

Please submit all documents to the Office of Graduate Admissions. Admission considerations include:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. A bachelor's degree from an accredited institution in chemistry, biology, forensic or natural science
4. Completion of eight credit hours (two semesters or equivalent) of organic chemistry with laboratories
5. Official transcripts from all colleges/universities attended
6. GPA of 3.5 or higher (strongly preferred)
7. Official GRE (https://www.ets.org/gre/) scores
8. Three letters of recommendation with Admission Recommendation Checklists. At least two must be from academic sources

9. A personal statement of 500 - 750 words
10. A current resume or vita
11. TOEFL/IELTS scores and third-party transcript evaluation for international students (if applicable)
12. A personal interview may be requested

The application checklist and instructions are available at Application Resources (https://www.shsu.edu/academics/forensic-science/admission.html).

Note: To be eligible for employment at forensic laboratories, students may need to complete additional foundational courses beyond the standard PhD degree requirements. For instance, prospective employees in Forensic Biology (https://www.swgdam.org/_files/ugd/4344b0_d73afdd0007c4ed6a0e7e2ffbd6c4eb8.pdf) must have completed a minimum of nine credit hours in upper-level biology courses, including biochemistry, genetics, and molecular biology. Additionally, prospective employees in Forensic Toxicology (https://www.txcourts.gov/media/1450308/license-requirements-doc-revised-010820.pdf) must have completed at least two courses, each carrying a minimum of three credit hours, in quantitative analysis and biochemistry, or similarly named courses.

The program requires the completion of a minimum of eighty-six hours of graduate credit, as prescribed in the curriculum.

Students must register full-time and maintain a 3.0 grade point average in all courses. In order to advance to candidacy students must have successfully completed (or be currently enrolled in) forty-four graduate credit hours of coursework and research. Students must submit a portfolio for review, write a formal research proposal, orally defend the proposal, and pass the qualifying examination (typically by the close of the second spring semester). Once the committee determines that the portfolio, proposal, oral defense, and examination performance are satisfactory, the student may enroll in dissertation research.

A minimum of fifteen hours of dissertation credits are required and students must maintain continuous enrollment until they graduate. Students must complete and defend a doctoral dissertation, which is the product of original scholarly research and is of sufficient publishable quality to represent a meaningful contribution to knowledge in the field of forensic science.

During the first year of study, students are exposed to the major forensic disciplines in addition to the forensic internship. After successfully completing core coursework during the first year, students identify their discipline of study and commence research under the direction of their faculty advisor.

Students with an MS in Forensic Science from a FEPAC-accredited institution may be eligible to transfer credit towards the eighty-six credit hour requirement.

Code	Title	Hours
Doctor of Philosophy in Forensic Science		
Required Courses		
FORS 5445	Forensic Instrumental Analysis	4
FORS 5117	Controlled Substances	1
FORS 5360	Pattern and Physical Evidence Concepts	3
FORS 5435	Trace/Microscopical Analysis	4
FORS 5440	Forensic Biology	4
FORS 6446	Forensic Toxicology	4
FORS 5116	Seminar In Forensic Science	1
FORS 5226	Law And Forensic Sciences	2
FORS 6224	Quality Assurance and Ethical Conduct in Forensic Science	2
FORS 6014	Forensic Science Research [1]	6
FORS 6371	Forensic Science Internship	3
FORS 7331	Research Methods	3
FORS 7332	Scientific Communications	3
FORS 7390	Forensic Laboratory Management	3
Prescribed Electives [2]		
Select twenty-eight semester credit hours of approved graduate courses in BIOL, CHEM, CRIJ, FORS, or PSYC.		28
Dissertation		
FORS 8099	Dissertation [3]	15
Total Hours		**86**

1 FORS 6014 must be taken for a total of six credit hours.

2 Once the minimum number of dissertation research hours have been met, dissertation hours may be substituted for electives (15 SCH maximum) with approval of the department chair.

[3] Once enrolled in FORS 8099, students must enroll in this course every semester until graduation.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The PhD in Forensic Science is designed to provide graduates with the following marketable skills:

- Advanced discipline-specific knowledge.
- Hands-on laboratory skills.
- Familiarity with legal, ethical, and quality assurance issues.
- Critical thinking skills.
- Impartiality and scientific objectivity.
- Application of statistical concepts to forensic science.
- Familiarity with consensus-based scientific standards in forensic science.
- Advanced instrumental understanding and technical troubleshooting skills.
- Ability to conduct original research.

Master of Science in Forensic Science

Mission

The mission of the Master of Science in Forensic Science program is to empower students with the fundamental knowledge, skills, and abilities necessary to prepare them for successful careers in forensic science. This mission is accomplished through academic coursework, hands-on laboratory experience, research, and the completion of an internship in a forensic science laboratory.

Our overall program goals are:

- To provide full support combined with continual improvement in the quality of education, scholarship, and service in compliance with the mission of the university;
- To develop an understanding of the areas of knowledge that are essential to forensic science; and
- To provide students with the practical skills, knowledge, and problem-solving abilities that will promote their advancement within the field of forensic science

We try to meet these goals by having specific, well defined and measurable objectives wherever possible:

- Students will command detailed competence of core course material in forensic science.
- Students will acquire practical skills in forensic science and apply this knowledge.
- Students will be oriented in professional values, concepts, ethics and problem solving.
- Students will demonstrate integration of knowledge and skills necessary for future success in the field of forensic science.

The Master of Science in Forensic Science program requires the completion of 44 graduate semester hours of core and forensic science coursework that can be completed in two years of full-time, face-to-face study. The program is designed to provide students with the necessary knowledge, skills, and abilities essential to forensic science. This unique and interdisciplinary program was the first of its kind in Texas. Graduate level topics include:

- Forensic biology
- Forensic chemistry
- Forensic toxicology
- Controlled substances
- Trace evidence and microscopy
- Instrumental analysis
- Crime scene investigation
- Pattern evidence
- Law and forensic science
- Ethics
- Quality assurance
- Statistics

These core topics are complemented with advanced coursework and laboratory instruction. The program maintains strong ties with accredited forensic laboratories in both the private and public sectors.

Students are required to:

- Complete an internship in a forensic laboratory;
- Complete an independent research project; and
- Demonstrate good oral and written skills that will prepare them for future success in both the laboratory and in the courtroom.

Those seeking careers in this field should be aware that background investigations similar to those required for law enforcement officers are likely to be a condition of employment. **Drug testing, history of drug use, criminal background checks, and other factors including use of social media may be considered for employment or internship placements.**

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/forensic-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Review of applications and offers of admission will begin Jan. 15 and proceed until enrollment openings are filled. A holistic review of each student's application will be completed on a competitive basis. All applicants are automatically considered for graduate assistantships in the Department of Forensic Science.

Please submit all documents to the Office of Graduate Admissions. Admission considerations include:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. A bachelor's degree from an accredited institution in chemistry, biology, forensic or natural science
4. Completion of eight credit hours (two semesters or equivalent) of organic chemistry with laboratories
5. Official transcripts from all colleges/universities attended
6. GPA of 3.0 or higher (strongly preferred)
7. Official GRE (https://www.ets.org/gre/)scores (strongly preferred)
8. Three letters of recommendation with Admission Recommendation Checklists. At least two must be from academic sources
9. A personal statement of 500 - 750 words
10. A current resume or vita
11. TOEFL/IELTS scores and third-party transcript evaluation for international students (if applicable)
12. A personal interview may be requested

The application checklist and instructions are available at Application Resources (https://www.shsu.edu/academics/forensic-science/admission.html).

Note: To be eligible for employment at forensic laboratories, students may need to complete additional foundational courses beyond the standard MSFS degree requirements. For instance, prospective employees in Forensic Biology (https://www.swgdam.org/_files/ugd/4344b0_d73afdd0007c4ed6a0e7e2ffbd6c4eb8.pdf) must have completed a minimum of nine credit hours in upper-level biology courses, including biochemistry, genetics, and molecular biology. Additionally, prospective employees in Forensic Toxicology (https://www.txcourts.gov/media/1450308/license-requirements-doc-revised-010820.pdf) must have completed at least two courses, each carrying a minimum of three credit hours, in quantitative analysis and biochemistry, or similarly named courses. Students who have not taken these courses may be required to take these stem courses during their first year.

The Master of Science in Forensic Science does not require a formal thesis. However, students complete an intensive research experience FORS 6014 during both long semesters of the second year. Students in this capstone course must produce a written scientific report and orally defend their research in a public forum to satisfy the University's comprehensive exam requirement.

During the first year of study students are exposed to the major forensic disciplines in addition to the forensic internship. However, students are expected to develop a highly specialized degree plan, tailored towards their specific career goals. This is accomplished through specialized electives, advanced coursework, and forensic research.

Code	Title	Hours
Master of Science in Forensic Science (Non-thesis)		
Required Courses		
FORS 5116	Seminar In Forensic Science	1
FORS 5117	Controlled Substances	1
FORS 5226	Law And Forensic Sciences	2

FORS 5360	Pattern and Physical Evidence Concepts	3
FORS 5435	Trace/Microscopical Analysis	4
FORS 5440	Forensic Biology	4
FORS 5445	Forensic Instrumental Analysis	4
FORS 6014	Forensic Science Research [1]	6
FORS 6224	Quality Assurance and Ethical Conduct in Forensic Science	2
FORS 6371	Forensic Science Internship	3
FORS 6446	Forensic Toxicology	4
Electives		
Select ten credit hours of approved graduate courses in FORS, CRIJ, BIOL, PSYC, or CHEM		10
Total Hours		**44**

[1] FORS 6014 must be taken for a total of six semester credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Forensic Science is designed to provide graduates with the following marketable skills:

- Advanced discipline-specific knowledge.
- Hands-on laboratory skills.
- Familiarity with legal, ethical, and quality assurance issues.
- Critical thinking skills.
- Impartiality and scientific objectivity.
- Application of statistical concepts to forensic science.
- Familiarity with consensus-based scientific standards in forensic science.

Department of Security Studies

Chair: Nadav Morag, Ph.D. (morag@shsu.edu)

Website: Department of Security Studies (http://www.shsu.edu/academics/criminal-justice-old/departments/security-studies/)

Contact Information:
Vivian Carlson (vxc003@shsu.edu)
(936) 294-1646

About

The Master of Science in Homeland Security Studies is designed to help students meet the needs of the homeland security enterprise at all levels of government as well as the private sector. It provides a comprehensive understanding of the homeland security enterprise to students desiring to advance their knowledge, skills, and qualifications within this field.

The broad educational objective is to develop thinkers, analysts, and leaders who possess expertise in both the conceptual and practical dimensions of homeland security policy and strategy. Graduates will gain knowledge of the field as well as develop their analytical, strategic, communication, and policy-framing skills.

All courses will be offered online and face-to-face courses will be offered if classes meet the minimum enrollment numbers

Highlights

Academically located within the College of Criminal Justice, the Department of Security Studies builds on one of the leading Criminal Justice and Criminology programs in the nation and the decades-long relationships of the College with public safety practitioners in the field. Moreover, the department is geographically situated within Texas, home to:

- Two of the nation's top 10 airports,
- Two of the top 5 largest metropolitan areas in the nation,
- 16 seaports,
- 29 oil refineries,
- The largest medical center in the world (in Houston), and
- The longest border with a foreign country of any of the 48 contiguous states.

Career Opportunities

The security studies program is designed to prepare students for leadership positions within the homeland security enterprise, including areas such as: law enforcement, emergency services, emergency management, public health, security (border, maritime, transportation), critical infrastructure protection (water sector, power sector, etc.), and other fields at the federal, state, and local levels of government as well as the private sector.

- Master of Science in Business Security and Resilience (p. 1539)
- Master of Science in Homeland Security Studies (p. 1541)
- Graduate Certificate in Critical Infrastructure Protection (p. 1542)
- Graduate Certificate in Emergency Management (p. 1543)

Student Organizations and Activities

- Graduate Student Organization
- Order of the Sword & Shield National Honor Society

The College of Criminal Justice hosts a variety of events for students, including special guest lecturers at Real Talk with CJ, a career fair, an undergraduate conference, and mock courtroom trials.

Internships

The Department's geographic and academic context have given rise to a very robust internship program which provides students with hands-on experience in the field to supplement their classroom experiences.

Graduates of the program have been employed by:

- The Department of Homeland Security (Border Patrol)
- The Central Intelligence Agency (Intelligence Analyst)
- The Federal Bureau of Investigation (Intelligence Analyst)

- Local police departments (Crime Analysts)
- South Texas Nuclear Power Plant (Plant Security)
- Photofax (Surveillance Firm)
- Mustang Engineering (International Oilfield Service Company)
- G4S Security (Private Security)

Scholarships

Scholarship opportunities, assistantships, and financial assistance are available. Student assistantships and scholarships are awarded on a competitive basis based upon academic performance, GRE scores, letters of recommendation and previous laboratory experience.

Financial awards are available, including out-of-state tuition waivers. University policy requires all students to pay in-state tuition.

Information on specific scholarships available in the College of Criminal Justice are available through Cutty Gilbert (cutty@shsu.edu)at (936) 294-3755.

Please see the College of Criminal Justice section for information on college and university level scholarships.

Director/Chair: **Nadav Morag**

Jeremiah Ogonda Asaka, PHD (joa012@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Massachusetts-Boston; MA, Univ of Massachusetts-Boston; MS, Ohio University; BSC, Maseno University

Magdalena A Denham, EDD (mxm002@shsu.edu), *Professor of Practice of Security Studies*, *Department of Security Studies*, EDD, Sam Houston State University; MA, San Diego St Univ; BA, Univ of San Diego

Nathan P Jones, PHD (nxj008@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; BA, Univ of Calif-Berkeley

Eroll Kuhn, PHD (exk026@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of N Carolina-Chapel Hill; MA, Univ of N Carolina-Chapel Hill; BA, Vassar College; BA, Vassar College

Russell P Lundberg, PHD (rxl027@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Pardee Rand Graduate School; MPHIL, Pardee Rand Graduate School; MPP, Univ of Maryland-College Park; BA, Hope College

Nadav Morag, PHD (nxm040@shsu.edu), *Professor and Chair of Security Studies*, *Department of Security Studies*, PHD, Tel Aviv University; MA, Univ of Calif-Los Angeles; BA, Univ of Calif-Los Angeles

Master of Science in Business Security and Resilience

The Master of Science in Business Security and Resilience will provide students seeking to embark on careers, or advance in existing careers, in the corporate sector with the analytical tools and knowledge base to cope with critical business concerns including threats to business operations, business continuity planning, project management, operations planning and control, organizational change, cybersecurity, digital forensics, and data analytics. The MS in Business Security and Resilience will offer students a choice of one of our tracks in Business Cybersecurity and Risk Management, Business Project Risk, and Data Analytics. The multidisciplinary program will consist of courses offered via the Department of Security Studies, the Department of Computer Science, and the Department of Management, Marketing, and Information Systems, the Department of Finance and Banking, the Department of Economics and International Business, the Department of Business Administration and Entrepreneurship, and the Department of Accounting.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/business-security-resilience/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Science in Business Security and Resilience program must submit the following directly to the Office of Graduate Admissions:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application Fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. GPA of 3.0 or higher
4. An undergraduate degree from an accredited academic institution in an allied field
5. Official transcripts of all academic coursework previously undertaken
6. A current resume
7. **International Students only:** Test of English as a Foreign Language (TOEFL) -- a minimum score of 550 (paper-based), 213 (computer-based), or 79 (internet-based) is required.

A holistic review of each student's application will be completed on a competitive basis.

Courses are offered online as this is an online degree program. However, some specific courses may be available during certain semesters as face-to-face courses, subject to decisions made by the respective departments. If a face-to-face option is available, students can request to register for such classes.

The MS in Business Security and Resilience is 30-hour degree program. No thesis is required, but students must take 18 hours of Required Courses and 12 hours of Track Elective Courses. Students can select from the following Tracks:

- Cybersecurity, Risk Management, and Business Concentration
- Risk Management, Project Management, and Digital Forensics Concentration
- Crisis Management and Continuity of Operations Concentration
- Risk Management, Information Systems, and Data Analytics Concentration

Code	Title	Hours
Master of Science in Business Security and Resilience		
Required Courses		
DFSC 5315	Network and Cyber Security	3
DFSC 5336	Business Continuity Management	3
SCMG 5325	Project Management	3
SCST 5338	Security and Management	3
SCST 5348	Critical Infrastructure Protection	3
SCST 6362	Critical Infrastructure Risk Management	3
Required Concentration Courses [1]		**12**
Students must select a concentration and complete 12 hours of concentration courses.		
Total Hours		**30**

[1] See Concentration course listings below.

Code	Title	Hours
Cybersecurity, Risk Management, and Business Concentration [1]		
Choose four track elective courses:		
COSC 5325	Operating System Security	3
COSC 5335	Database Security	3
MGIS 5360	Project Management for Business Systems Development	3
MGMT 5320	Management of Innovation and Technology	3
SCMG 5330	Operations Planning & Control	3
SCST 5320	Emergency Management Integration I	3

Code	Title	Hours
Risk Management, Project Management, and Digital Forensics Concentration [1]		
Choose four track elective courses:		
DFSC 5316	File System Forensics	3
DFSC 5327	Digital Forensics Investigation	3
MGIS 5360	Project Management for Business Systems Development	3
MGMT 5320	Management of Innovation and Technology	3
SCMG 5330	Operations Planning & Control	3
SCST 5320	Emergency Management Integration I	3

Code	Title	Hours
Crisis Management and Continuity of Operations Concentration [1]		
Choose four track elective courses:		
BUAD 5310	Managerial Communication	3
SCMG 5323	Tools of Project Management	3
SCMG 5330	Operations Planning & Control	3
SCST 5320	Emergency Management Integration I	3
SCST 6320	Emergency Management Integration II	3
SCST 6360	Leadership in Homeland Security and Emergency Management	3

Code	Title	Hours
Risk Management, Information Systems, and Data Analytics Concentration [1]		
Choose four track elective courses:		
ACCT 5302	Financial Reporting & Business Decisions	3
BANA 5368	Techniques Of Statistical Analysis	3
COSC 5318	Database Systems	3
COSC 6314	Data Mining/Knowledge Discovery	3
COSC 6335	Big Data Analytics	3
MGIS 5360	Project Management for Business Systems Development	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Business Security and Resilience is designed to provide graduates with the following marketable skills:

- Assess risks to critical infrastructure and risk mitigation strategies.
- Adapt project management skills to enhance security and resilience in critical infrastructure.
- Appraise threats to network and cybersecurity and measures to enhance network and cybersecurity.
- Evaluate approaches to ensure business continuity in the face of risks.

Master of Science in Homeland Security Studies

The Master of Science in Homeland Security Studies is designed to help students meet the needs of the homeland security enterprise at all levels of government as well as the private sector. It provides a comprehensive understanding of the homeland security enterprise to students desiring to advance their knowledge, skills, and qualifications within this field.

All courses will be offered online over 7.5 weeks per course session. Students taking a full course load each session will be able to complete the program in one year. Some courses may also be offered additionally as face-to-face courses if there is enough student demand.

The program does have an option for an internship elective. Internship electives are the only full-semester course offered in this program. Students need to secure an internship on their own initiative and request approval for it from the Graduate Program Director.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/homeland-security-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Science in Homeland Security Studies program must submit the following directly to the Office of Graduate Admissions:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. GPA of 3.0 or higher.
4. Official GRE scores may be requested to demonstrate graduate study readiness if the GPA is low. An undergraduate degree from an accredited academic institution in an allied field.
5. Unofficial transcripts of all academic coursework previously undertaken.
6. **International students ONLY:** Test of English as a Foreign Language (TOEFL) — a minimum score of 550 (paper-based), 213 (computer-based), or 79 (internet-based) is required.

A holistic review of each student's application will be completed on a competitive basis.

Courses are offered primarily online. Some courses can be offered face-to-face subject to student demand. Admissions occurs year round.

First Year

Fall	Hours	Spring	Hours
SCST 5339		3 SCST 5320	3
SCST 5344		3 SCST 5338	3
SCST 5396		3 SCST 5348	3
		9	**9**

Second Year

Fall	Hours	Spring	Hours
SCST 5335		3 SCST 5346	3
SCST 5336		3 SCST Elective Course	3
SCST Elective Course		3 SCST Elective Course	3
		9	**9**

Total Hours: 36

Code	Title	Hours
Master of Science in Homeland Security Studies (Internship)		
Required Courses		
SCST 5320	Emergency Management Integration I	3
SCST 5335	Global Perspectives in Homeland Security	3
SCST 5336	Law and Ethics in Homeland Security	3
SCST 5338	Security and Management	3
SCST 5339	Foundations of Homeland Security	3
SCST 5344	Unconventional Threats	3
SCST 5346	Information and Intelligence Management	3
SCST 5348	Critical Infrastructure Protection	3
SCST 5396	Research Methods - Homeland Security Studies	3
Prescribed Electives		

Select three from the following:		9
SCST 6320	Emergency Management Integration II	
SCST 6360	Leadership in Homeland Security and Emergency Management	
SCST 6362	Critical Infrastructure Risk Management	
SCST 6364	Cybersecurity	
SCST 6370	Internship in Security Studies (Full Semester Course)	
SCST 6394	Special Topics in Security Studies (limited usage, once for 3 SCH)	
No elective courses outside of the department will be permitted except at the department chair's discretion.		
Total Hours		**36**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Homeland Security Studies is designed to provide graduates with the following marketable skills:

- Think critically, conduct analysis, derive conclusions based on evidence, and communicate effectively.
- Understand strategic policy-making to address homeland security challenges.
- Weigh policy options, analyze data, and develop policy solutions to homeland security problems.
- Understand the interagency environment, the legal frameworks, and the international context in which the homeland security enterprise operates.

Graduate Certificate in Critical Infrastructure Protection

The online Graduate Certificate in Critical Infrastructure Protection is an 18-hour program catering to working professionals currently in law enforcement, public safety, private security, and other fields related to emergency management and homeland security. The certificate provides an opportunity for students to advance professional growth and career development while maintaining their occupational responsibilities. The certificate is structured to allow students to complete the program in one calendar year, enrolling in two courses per semester.

Students can choose from face-to-face and online options. All courses will be offered online as well as face-to-face if minimum enrollment requirements are met.

Completion of the Graduate Certificate involves approximately half the coursework necessary for a Master of Science in Homeland Security Studies. Students completing the certificate have the option of continuing their studies to obtain the Master's degree.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/critical-infrastructure-protection/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Criminal Justice Leadership and Management must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. GPA of 3.0 or higher
4. All official transcripts from colleges or universities attended.

Code	Title	Hours
Graduate Certificate in Critical Infrastructure Management		
Specified Courses		
SCST 5338	Security and Management	3
SCST 5339	Foundations of Homeland Security	3
SCST 5344	Unconventional Threats	3
SCST 5348	Critical Infrastructure Protection	3
SCST 6362	Critical Infrastructure Risk Management	3
SCST 6364	Cybersecurity	3
Total Hours		**18**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Critical Infrastructure Protection is designed to provide graduates with the following marketable skills:

- Risk Assessment.
- Critical Infrastructure Protection.
- Cybersecurity.

Graduate Certificate in Emergency Management

The online Graduate Certificate in Emergency Management is an 18-hour program catering to working professionals currently in law enforcement, public safety, private security, and other fields related to emergency management and homeland security. The certificate provides an opportunity for students to advance professional growth and career development while maintaining their occupational responsibilities. The certificate is structured to allow students to complete the program in one calendar year, enrolling in two courses per semester.

All courses will be offered online. Face-to-face courses will occasionally be offered if minimum enrollment requirements are met.

Completion of the Graduate Certificate involves approximately half the coursework necessary for a Master of Science in Homeland Security Studies. Students completing the certificate have the option of continuing their studies to obtain the Master's degree.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/emergency-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Emergency Management must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. GPA of 3.0 or higher
4. All official transcripts from colleges or universities attended.

Code	Title	Hours
Graduate Certificate in Emergency Management		
Specified Courses		
SCST 5320	Emergency Management Integration I	3
SCST 5339	Foundations of Homeland Security	3
SCST 5344	Unconventional Threats	3
SCST 5346	Information and Intelligence Management	3
SCST 6320	Emergency Management Integration II	3
SCST 6360	Leadership in Homeland Security and Emergency Management	3
Total Hours		**18**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Emergency Management is designed to provide graduates with the following marketable skills:

- Emergency Management.
- Intelligence.
- Leadership in Homeland Security and Emergency Management.

Department of Victim Studies

Chair: Shelly Clevenger, Ph.D. (sxc167@shsu.edu)

Department of Victim Studies
Telephone: 936-294-4735

Website:
Department of Victim Studies (https://www.shsu.edu/academics/victim-studies/)

About

Be a part of the new, path-breaking Department of Victim Studies, the only one of its kind in the nation! The Department is home to the Master of Science in Victim Services Management (MSVSM) program, one of the most innovative criminal justice programs available in the United States.

The Master of Science in Victim Services Management program remains a leader in providing high-quality education to students in the field of victim services and has broad application to policy analysts, program administrators, and direct service providers. Through a rigorous online curriculum developed and delivered by experienced faculty, the program is committed to promoting professionalism in victim services nationwide. Students earning this advanced degree will be educated on evidence-based best practices to provide more optimal programming for victims of crime.

Faculty include renowned victimology scholars and esteemed victim service professionals with a combination of extensive education and field experience. Online graduate programs in the College of Criminal Justice have been consistently ranked among the top criminal justice programs in the United States. The MSVSM program is acknowledged in this distinguished ranking.

Mission

The MSVSM program is committed to providing high-quality instruction to students in the field of victim services. Its goal is to produce a population of leaders prepared to administer quality programs based on a solid understanding of industry trends and evidence-based practices.

As a graduate student in the Victim Studies Department at SHSU, you will:

- Learn from renowned victimology scholars and faculty with extensive field experience
- Enroll in courses that are National Advocate Credentialing Program-approved
- Have exposure to service-learning opportunities
- Have access to academic advising services and a job and information portal

Contact Information:

General Information on the Department of Victim Studies: Mayra Pena (mxp159@shsu.edu), 936-294-4735
General Information on the College of CCJ graduate programs: Aarianna Longino (abl033@shsu.edu), Graduate Coordinator, 936-294-1695
Department of Victim Studies Administration: Shelly Clevenger (sxc167@shsu.edu), Professor and Department Chair, 936-294-1647
Coordinator for the Master of Science in Victim Services Management Program: Philip Mulvey (pwm010@shsu.edu), 936-294-4174

- Master of Science in Victim Services Management (p. 1546)

Scholarships

Scholarships and financial assistance are available. Scholarships are awarded on a competitive basis based upon academic performance and letters of recommendation, among other factors.

Financial awards are available, including out-of-state tuition waivers. University policy requires all students to pay in-state tuition.

Information on specific scholarships available in the College of Criminal Justice are available through Cutty Gilbert (cutty@shsu.edu) at (936) 294-3755. Potential graduate students should contact Doris Pratt (pratt@shsu.edu) at (936) 294-3637. Students may also apply for scholarships through the Graduate School. Certain conditions apply. For specific information regarding the Graduate School General Scholarship, contact Graduate Studies at: 936.294.2408 or gradstudies@shsu.edu.

Director/Chair: **Shelly Lynn Clevenger**

Mary Magdalene Breaux, PHD (mmp019@shsu.edu), *Professor of Practice in Victim Studies*, *Department of Victim Studies*, PHD, Prairie View A&M University; MA, Webster University; BS, Sam Houston State University

Shelly Lynn Clevenger, PHD (sxc167@shsu.edu), *Professor and Chair of Victim Studies*, *Department of Victim Studies*, PHD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Indiana University of Pennsyl

Jessica Caitlin Fleming, PHD (jcc063@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Sam Houston State University; PHD, Purdue University; MA, Sam Houston State University; BS, Sam Houston State University

Philip W Mulvey, PHD (pwm010@shsu.edu), *Associate Professor of Victim Studies*, *Department of Victim Studies*, PHD, Arizona State University; MA, Boston College; BS, Univ of Illinois-Urbana

Kathleen Rene Ratajczak, PHD (kxr084@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Univ of Kentucky; MA, Univ of Cincinnati; BA, John Carroll University

Master of Science in Victim Services Management

Chair: Shelly Clevenger, Ph.D. (sxc167@shsu.edu)

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About

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Faculty include renowned victimology scholars and esteemed victim service professionals with a combination of extensive education and field experience. Online graduate programs in the College of Criminal Justice have been consistently ranked among the top criminal justice programs in the United States. The M.S. in Victim Services Management degree program is acknowledged in this distinguished ranking.

Mission

The M.S. in Victim Studies Management degree program is committed to providing high-quality instruction to students in the field of victim services with a goal to produce a population of leaders prepared to administer quality programs based on a solid understanding of industry trends and evidence-based practices.

As a graduate student in the Victim Studies Department at SHSU, you will:

- Learn from renowned victimology scholars and faculty with extensive field experience
- Enroll in courses that are National Advocate Credentialing Program-approved
- Have exposure to service learning opportunities
- Have access to academic advising services and a job and information portal

Contact Information:

Department of Victim Studies (General Information): Mayra Pena, mxp159@shsu.edu or 936-294-4735
College of Criminal Justice graduate programs (General Information): Aarianna Longino, Graduate Coordinator, 936-294-1695
Department of Victim Studies Administration: Shelly Clevenger, Professor and Department Chair, 936-294-1647
Master of Science in Victim Services Management (Coordinator): Philip Mulvey, 936-294-4174

The Master of Science in Victim Services Management is designed to prepare graduates to work in various areas of victim services[1], including but not limited to, direct service provision, organizational management, and social policy development. This degree will benefit persons with or without previous employment experience. However, the ideal candidate will have had professional experience in the field of victim services. Courses are sequenced so that students can complete the degree in two years.

[1] Select courses meet National Advocate Credentialing Program (NACP) standards.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/victim-services-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the Master of Science in Victim Services Management Degree Program are reviewed on a rolling basis, with a Fall semester priority deadline of August 1st. The Spring semester priority deadline is December 15th. The application deadline for Summer is May 15th. A review of each student's application file will be completed with admission offered on a competitive basis. Please submit all documents to the University Office of Graduate Admissions. Admission considerations include:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. An undergraduate degree from an accredited institution in an allied field.
4. Unofficial transcripts of all academic work previously undertaken.*

5. A cumulative undergraduate degree grade point average of 2.5 or 2.8 for the final 60 baccalaureate credits.
6. **International students ONLY**: Test of English as a Foreign Language (TOEFL). A minimum score of 550 (paper-based), 213 (computer-based), or 79 (internet-based) is required.

*Applicants may submit unofficial transcripts for review by the admission committee. However, under university policy, admissions decisions are contingent upon receipt of official transcripts.

A holistic review of each student's application file will be completed with admission offered on a competitive basis.

Code	Title	Hours
Master of Science in Victim Services Management		
Required Courses		
CRIJ 5330	Critical Analysis Of Justice Administration	3
CRIJ 6334	Research Methods and Quantitative Analysis	3
CRIJ 6392	Program Evaluation In Criminal Justice	3
VCST 5364	Seminar in Victimology [1]	3
VCST 5365	Seminar in Crime Victim Services and Management	3
VCST 5366	Advocacy and Case Management [1]	3
VCST 5385	Non-Profit Grant Writing	3
VCST 6338	Coordinating Victim Services [2]	3
Prescribed Electives		
Select four of the following:		12
CRIJ 6394	Special Topics-Criminal Justice (Violence Against Women or Human Resources Mgt.)	
or VCST 6394	Special Topics in Victim Studies	
VCST 5368	Human Sex Trafficking	
VCST 5370	Elder Abuse and Victimization [1]	
VCST 5371	Interpersonal Violence	
VCST 5383	Family Violence [1]	
VCST 5384	Child Abuse and Neglect [1]	
VCST 6330	Neurobiology of Trauma	
Total Hours		**36**

1 National Advocate Credentialing Program (NACP)-approved course.
2 A grade of B or better in VCST 6338 is required for graduation.

Note: A one year accelerated Master of Science in Victim Services Management Program is available for students. In order to complete a one-year program, students would enroll in four courses per semester over three semesters (i.e Fall, Spring, Summer or Spring, Summer, Fall).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Victim Services Management is designed to provide graduates with the following marketable skills:

- Grant writing.
- Interpersonal communication.
- Leadership knowledge, skills, and abilities.
- Problem solving.
- Program development and evaluation.

College of Education

Administrative Officers

Title/Department	Officer
Dean	Stacey Edmonson, Ed.D. edu_sle01@shsu.edu; (936) 294-1101
Associate Dean for Academic Administration and Enrollment	Abbie Strunc, Ph.D. abbie.strunc@shsu.edu; (936) 294-1062
Associate Dean for Educational Assessment and Accountability	Casey Brown, Ph.D. ccb068@shsu.edu; (936) 294-4287
Associate Dean for Student Success and Partnerships	Helen Berg, Ph.D. hberg@shsu.edu; (936) 294-4633
Senior Director of Strategic Operations and Projects	TBD
Department of Counselor Education	Leigh Holman, Ph.D., Chair laf006@shsu.edu; (936) 294-3410
Department of Educational Leadership	Eric Platt, Ph.D., Chair eep032@shsu.edu; (936) 294-3705
Department of Library Science and Technology	Holly Weimar, Ed.D., Chair hweimar@shsu.edu; (936) 294-1150
School of Teaching and Learning	Kristina Vargo, Ph.D., Chair kkv003@shsu.edu; (936) 294-4099

About the College

The College of Education is comprised of four academic units:

- Counselor Education
- Educational Leadership
- Library Science and Technology
- School of Teaching and Learning

Teacher Certification is also under the administrative purview of the College of Education

Vision Statement

Preparing Leaders to impact a diverse and changing world.

Belief Statements

- What we all do matters.
- Innovation fosters creativity, critical thinking, and passion.
- Relevant experiences promote growth and inspires change.
- Strength is found in valuing diversity.
- Positive relationships influence success.

Contact Information
(936) 294-1101
Teacher Education Center 213

Website
College of Education (http://www.shsu.edu/academics/education/)

Master's Degrees

Departments	Programs
Counselor Education	Counseling, MA
Counselor Education	School Counseling, MED
Educational Leadership	Higher Education Administration, MA
Educational Leadership	School Leadership, MED
Library Science and Technology	Instructional Systems Design and Technology, MED

Library Science and Technology	Library Science, MLS
School of Teaching and Learning	Comparative and Global Education, MED
School of Teaching and Learning	Curriculum and Instruction, MED
School of Teaching and Learning	Literacy Instruction, MED
School of Teaching and Learning	Special Education, MA
School of Teaching and Learning	Special Education, MED
School of Teaching and Learning	Teaching and Learning, MED
School of Teaching and Learning	TESOL, MED

Doctoral Degrees

Departments	Programs
Counselor Education	Counselor Education, PhD
Educational Leadership	Educational Leadership, EdD
Educational Leadership	Higher Education Leadership, EdD
Library Science and Technology	Instructional Systems Design and Technology, EdD
School of Teaching and Learning	Curriculum and Instruction, EdD

Certificates

Departments	Programs
Counselor Education	Play Therapy
Counselor Education	Trauma and Loss
Educational Leadership	Academic Advising
Library Science and Technology	Effective Online Instruction
School of Teaching and Learning	Adult Education
School of Teaching and Learning	Digital Literacies
School of Teaching and Learning	Dyslexia
School of Teaching and Learning	Early Childhood Education
School of Teaching and Learning	Second Language Instruction
School of Teaching and Learning	Special Education Transition Services
Library Science and Technology	Educational Technology
Professional Certification	
Counselor Education	School Counseling
Educational Leadership	Principal
Educational Leadership	Superintendent
Library Science and Technology	School Librarian
School of Teaching and Learning	Educational Diagnostician
School of Teaching and Learning	Reading Specialist
School of Teaching and Learning	Teacher

Department of Counselor Education

About

Chair: Leigh Holman, Ph.D. (laf006@shsu.edu)

Contact Information: (936) 294-3410

Website: Department of Counselor Education (http://www.shsu.edu/academics/counselor-education/)

Mission

The mission of the SHSU Department of Counselor Education is to facilitate the development of professional counseling generalists who play an active role in enhancing individual, family, and community wellness in a diverse and changing world. Within the context of this mission, the goals of the Department of Counselor Education are to:

- Provide assistance to qualified students in learning the knowledge and skills necessary to perform as competent and ethical professionals in the counseling field. This includes encouraging students to develop themselves as well-rounded individuals combining their academic experience, professional interests and individual worldview.
- Provide academic coursework and clinical experiences that support and enhance the professional development of the student following CACREP standards.
- Facilitate the Supervised Counseling Practicum in the Jack Staggs Counseling Clinic and Jack Staggs Counseling Clinic at The Woodlands Center primarily for clinical training where advanced graduate students have opportunities for direct client contact and individual and group supervision from counselor education faculty. Because of the availability of practicum interns, the Supervised Counseling Practicum also provides counseling for the general public in the greater Huntsville region.
- Promote an understanding and acceptance of the cultural diversity of our society.
- Model the standards of integrity, performance, and concern for clients' welfare.

- Ph.D. in Counselor Education (p. 1552)
- Master of Arts in Counseling (p. 1553)
- Master of Education in School Counseling (p. 1555)
- Graduate Certificate in Marriage, Couples, and Family Counseling (p. 1557)
- Graduate Certificate in Play Therapy (p. 1558)
- Graduate Certificate in Trauma and Loss (p. 1559)

Sinem Akay-Sullivan, PHD (sxa055@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MED, Univ of North Texas; MS, Middle East Technical Univ; BS, Hacettepe University

Dusanka Armstrong, MA (dxa015@shsu.edu), *Adjunct*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

Tershundrea Branch, PHD (txb035@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; BS, Lamar University

Yvonne Garza-Chaves, PHD (yxg002@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MSW, Our Lady of Lake University; BSW, Univ of Texas-Pan American

Megan Renee Garzaglass, PHD (mrg044@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Houston-Clear Lake; BS, California St Un-Sacramento

Susan Elizabeth Henderson, PHD (shenderson@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Sam Houston State University; MA, Hardin Simmons University; BS, Stephen F Austin University

Maribeth Frances Jorgensen, PHD (mxj040@shsu.edu), *Associate Professor of Counselor Education and Assistant Dean, COED*, *Department of Counselor Education*, PHD, The University of South Dakota; MSED, Univ of Nebraska-Kearney; BS, Univ of Nebraska-Kearney

Chi-Sing Li, PHD (dcl001@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, East Texas A&M; MED, Univ of Louisiana-Monroe; MED, Univ of Louisiana-Monroe; BA, Univ of Texas At Austin

Felicia Leila Mirghassemi, PHD (flm002@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas At Tyler; BS, Univ of Texas At Tyler

Seth David Olson, PHD (sxo036@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Kent State University; PHD, Kent State University; MA, The University of South Dakota; BA, Univ of Nebraska-Lincoln

Erin Nicole Pitts, MA (enp008@shsu.edu), *Clinical Assistant Professor of Counselor Education*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

Kathleen Ann Rice, PHD (kar084@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of N Carolina-Charlotte; MS, South Dakota State University; BS, South Dakota-Mines/Tech

Jennifer Hatchett Stover, PHD (jlh159@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; MAT, Texas Woman's University; BS, Texas Woman's University

Jeffrey M Sullivan, PHD (jms107@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MS, Univ of North Texas; BA, Univ of Texas At Austin

Lana Francine Trotter, PHD (lfc013@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas-San Antonio; BA, Univ of North Texas

Danielle Nicole White, PHD (stddnw13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MED, Lamar University; BS, Univ of Houston-Downtown

Warren Brandon Wright, MED (wbw007@shsu.edu), *Lecturer of Education*, *Department of Counselor Education*, MED, Georgia Southern University; BS, Georgia Southern University

Natasha Young Risher, MED (nxy007@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, MED, Texas Southern University; BA, Univ of Houston-Main

Ph.D. in Counselor Education

The Counselor Education doctoral program provides the highest professional degree available to students who aspire to work in leadership positions in counselor education and supervision or school counseling. Moreover, many of our graduates go on to do entrepreneurial work with a model they created from their dissertation work. The Ph.D. in Counselor Education includes a prescribed curriculum consisting of required and elective courses for 60 hours of post-master's graduate credit. Qualified applicants must be a graduate of a CACREP accredited master's degree or 60-hour equivalent master's degree. Additionally, the doctoral degree is awarded on the basis of successful completion of coursework, the passing of comprehensive exams, and the completion of a major research study resulting in the presentation and defense of a dissertation.

Students who complete the doctoral degree in counselor education will:

- apply counseling theory and research to the counselor education and/or school counseling leadership functions.
- plan and deliver research-based counselor education didactic courses.
- apply counselor supervision theory and research to individual and group supervision in counselor education and/or school counseling programs.
- use advanced level communication and interpersonal skills in consultation, counseling, counselor education, supervision, and evaluation.
- interpret the relationships among federal, state, and local agencies and the laws and ethical considerations applicable to the counselor education and/or school counseling program management fields.
- apply advanced level diagnostic and assessment methodology and develop the capacity to teach appropriate treatment plans for a wide range of psychological concerns to master's level students.
- demonstrate multicultural awareness and competence during doctoral level counseling, supervision, and consultation.
- incorporate adult education pedagogy and research as a basic tool in administering counselor education and staff development programs.
- design doctoral-level counseling research and interpret results.
- apply data to advanced level counseling capabilities and/or school counseling leadership functions.
- successfully complete extensive internship experiences directly related to the student's individual professional goals.
- write for professional publication and presentations.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/counselor-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The application deadline is March 1.

Applicants seeking admission to the doctoral program in Counselor Education must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) showing receipt of a baccalaureate degree and a master's degree from an accredited institution
4. Master's degree GPA of 3.5 or higher. If master's degree GPA below 3.5, then an official GRE General Test score (within last 5 years) is required.
5. Personal statement (1000 words maximum) (you are encouraged to showcase: your passion and/or rationale for wanting a Ph.D. in Counselor Education, understanding of what is involved in this type of degree, level of perseverance, specialties or experiences (i.e., what you bring to the table).
6. Three Reference Evaluation Forms, two from former graduate-level professors or current clinical supervisor(s), the other form may be from an official in a school or mental health agency where the applicant has been employed (Note: These must be "closed" recommendations)

Applicants must have a CACREP accredited master's degree in counseling or 60-hour equivalent. Applicants must currently have or eligible to work towards an LPC (meet requirements set by the Texas Behavioral Health Executive Council).

Applicant Interview and Selection Process

The Counselor Education doctoral admissions committee will consider all applications through a holistic review process, considering the graduate GPA, GRE scores (if required), work experience, any relevant CACREP background, license(s), clinical experiences, recommendations, and interview scores. After reviewing the pool of applicants, the doctoral admissions committee will recommend the top candidates for the on-campus interview process. Applicants invited for the interview will be given specific guidelines for the process, which may include an interview with the faculty, group tasks (to examine cohort fit) and an on-site writing proficiency assessment. All qualified doctoral students are admitted under regular admission to the program.

Program Specifics

Students will have significant opportunities both inside and outside of class to develop advanced levels of their supervision, counselor, research, and leader professional identities.

This program follows a cohort model. This means that individuals are admitted to a specific group, called a cohort, and are required to take their coursework at the same time as the other individuals in the cohort. Cohorts begin each fall semester. In the event that students encounter personal emergencies that result in dropping out of their cohort, students may be allowed to join another cohort with a different schedule.

The program requires completion of 60-hours graduate credit. A comprehensive examination is required, usually occurring in the 2nd or 3rd year of the program.

Students select a dissertation chair when enrolled in COUN 7363 research application. Students and their dissertation chair will jointly select the student's doctoral dissertation committee. Once students reach the dissertation phase of their doctoral program, they must have continuous enrollment every semester until graduation.

Code	Title	Hours
PhD in Counselor Education		
Specified Courses		
COUN 7110	Doctoral Seminar (taken three times with a distinct focus area (ethics, APA, leadership)	3
COUN 7331	Advanced Counseling Theories	3
COUN 7332	Advanced Counseling Appraisal Techniques	3
COUN 7334	Theories Of Counselor Supervision	3
COUN 7335		3
COUN 7336	College Teaching In Counseling	3
COUN 7337	Advanced Counseling Practicum and Techniques	3
COUN 7339	Doctoral Internship In Counseling (two semesters- 3 credits each semester)	6
COUN 7375	Advanced Multicultural Counseling	3
Research Component (15 hours)		**15**
COUN 7363	Application of Counseling Research	
EDER 7362	Methods of Education Research	
EDER 7365	Statistical Methods	
EDER 7372	Qualitative Inquiry	
EDER 7374	Advanced Statistical Methods	
Electives: Select two graduate courses in COUN or related to COUN		6
Dissertation		**9**
COUN 8033	Dissertation	
Total Hours		**60**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Ph.D. in Counselor Education is designed to provide graduates with the following marketable skills:

- Plan and deliver research-based counselor education didactic courses.
- Apply counselor supervision theory and research to individual and group supervision in counseling and counselor education programs.
- Design doctoral-level research and interpret research results.

Master of Arts in Counseling

Are you passionate about making a difference in people's lives? Becoming a clinical mental health counselor allows you to support individuals on their journey to healing and growth in a range of clinical, community, and human service settings. Our CACREP-accredited curriculum consists of 60 credit hours offered in a combination of face-to-face and online courses. Our program equips you with essential knowledge and skills, offering real-world, hands-on training with experienced faculty. Join a rewarding field where your compassion can transform lives.

Ready to take the next step? Explore our program today!

Click here to see the value of attending a CACREP-accredited program (https://www.cacrep.org/value-of-accreditation/why-should-i-choose-an-accredited-program/).

Students select the Clinical Mental Health Counseling program if they want to complete coursework needed in the State of Texas to apply for licensure as a Licensed Professional Counselor (LPC).

All students must take the comprehensive examination prior to the final semester of Internship (COUN 6386). Students must be enrolled in the university when taking the comprehensive examination and when applying for graduation.

CMHC Program - Preparation for Licensed Professional Counselor

Students completing the Clinical Mental Health Counseling (CMHC) program will have the academic and clinical experience requirements needed to apply for a Licensed Professional Counselor-Associate (LPC-Associate) in the state of Texas. Students may also choose electives that provide them with more specific training for working with special populations (e.g., play therapy, trauma). LPC-Associates are qualified to work under supervision in a variety of mental health settings, including private practice, non-profit counseling agencies, hospitals, correctional settings, college counseling centers, and substance-abuse treatment centers. Once fully licensed (LPC), graduates of this program may work independently in private practice and other mental health settings. Additionally, CMHC students may earn Graduate Certificates in Play Therapy and/or Marriage, Couples, and Family Counseling.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/counseling/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications for entrance into the Master of Arts in Counseling (CMHC) are accepted for Fall and Spring admission. See program landing page (https://www.shsu.edu/programs/graduate/counseling/) for application deadlines. Applicants seeking admission to the Master of Arts in Counseling (CMHC) must submit the following items directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html) through their Self-Service Portal, which will be activated after submitting your application through Apply Texas:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from undergraduate institution conferring the undergraduate degree
4. Two Reference Forms:
   a. one reference form provided by a former or current employer or professor
   b. one reference form provided by a professional acquaintance but cannot be a family member or an applicant's personal medical or behavioral health provider
5. Personal Statement that addresses identified prompts
6. Official GRE General Test scores
   a. The GRE requirement will be waived for applicants meeting the one of the following conditions:
      i. possess an undergraduate GPA of 3.0 or higher
      ii. have completed at least nine hours of graduate level course work with a GPA of 3.5 or higher

The Counselor Education master's admissions committee will consider all applications through a holistic review process. After reviewing the pool of applicants, the master's admissions committee will recommend the top candidates for interview process. Applicants invited for the interview will be given specific guidelines for the process.

Code	Title	Hours
Master of Arts in Counseling - Clinical Mental Health Counseling Program (CACREP Accredited)		
Specified Courses		
COUN 5011	Counseling Profession & Ethics	3
COUN 5334	Diagnostics and Intervention in Counseling	3
COUN 5336	Advanced Behavior Pharmacology	3
COUN 5364	Theories Of Counseling	3
COUN 5370	Career Counseling Across Lifespan	3
COUN 5379	Methods Of Research	3
COUN 5385	Pre-Practicum: Techniques Of Counseling	3
COUN 5392	Cross Cultural Issues In Counseling	3
COUN 5393	Administrative Clinical Mental Health Services	3
COUN 5394	Crisis and Trauma Counseling	3
COUN 5397	Human Growth & Development Across the Lifespan	3
COUN 6332	Theories: Marriage, Couples, and Family Counseling	3
COUN 6350	Counselor Ethics: Management, Law, and Practice	3
COUN 6363	Assessment in Guidance and Counseling	3
COUN 6364	Counseling For Addictions	3
COUN 6374	Group Counseling	3
COUN 6376	Supervised Practice In Counseling	3
COUN 6386	Internship (First Semester) [1]	3

COUN 6386	Internship (Second consecutive semester) [1]	3
Restricted Electives		
Select one of the following:		3
COUN 5391	Child & Adolescent Counseling	
COUN 5398	Sandtray Therapy	
COUN 5399	Play Therapy Basics	
COUN 6333	Techniques Of Couples Counseling	
COUN 6337	Counseling For Sexual Concerns	
COUN 6338	Techniques of Family Counseling	
Total Hours		**60**

[1] COUN 6386 is taken twice for a minimum of six hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Counseling is designed to provide graduates with the following marketable skills:

- Higher-order thinking.
- Oral and written communication.
- Professional conduct and ethical behavior.
- Multicultural and diversity competencies.
- Self-awareness of inter/intrapersonal relationships.
- Ability to apply counseling and development knowledge to professional practice.

Master of Education in School Counseling

Grow your career and help students as you expand your role with a Master of Education in School Counseling. The MEd in School Counseling at Sam Houston State University is a well-respected program in the field. It is nationally accredited through the Council for Accreditation of Counseling and Related Education Programs (CACREP) and is designed specifically for students who want to work toward certification as a school counselor in Texas. It is a 60-hour program infused with a real-world, applicable curriculum designed to empower students to meet the demands of today's school counselor.

The MEd program is designed to comply with existing Texas Education Agency standards for professional school counseling certification. This program meets academic requirements for the Licensed Professional Counselor (LPC) license in Texas. Additionally, students interested in play therapy can add on a Graduate Certificate in Play Therapy. All students must take the comprehensive examination prior to the final semester of Internship (COUN 6386). Students must be enrolled in the university when taking the comprehensive examination and when applying for graduation.

Click here to learn about the value of selecting a CACREP accredited program (https://www.cacrep.org/value-of-accreditation/why-should-i-choose-an-accredited-program/)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/school-counseling/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the Master of Education in Counseling are accepted for Fall semester. See program landing page (https://www.shsu.edu/programs/graduate/school-counseling/) for submission deadlines. Applicants must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) (paid to the TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A)) if seeking Texas School Counselor certification
4. Official transcripts from all undergraduate institutions attended.
5. Minimum GPA of 3.0 in the most recent degree conferred, either overall or in the last 60 semester credit hours.
6. Two References Forms:

a. one reference form provided by a former or current employer or professor.
b. one reference form provided by a professional acquaintance but cannot be a family member or the applicant's personal medical or behavioral health provider.

7. Personal Statement addressing prompts.
8. Current Resume
   a. A resume is required to determine if an applicant is eligible for the Mental Health Grant.
9. Valid Teacher Certificate*

*Effective September 1, 2023, teaching experience is no longer required for certification.

The Counselor Education master's admissions committee will consider all applications through a holistic review process. After reviewing the pool of applicants, the master's admissions committee will recommend the top candidates for interview process. Applicants invited for the interview will be given specific guidelines for the process.

Code	Title	Hours
Master of Education in School Counseling		
Required Courses		
COUN 5011	Counseling Profession & Ethics	3
COUN 5333	School Counseling: Consulting, Coordinating ,Counseling	3
COUN 5334	Diagnostics and Intervention in Counseling	3
COUN 5336	Advanced Behavior Pharmacology	3
COUN 5364	Theories Of Counseling	3
COUN 5370	Career Counseling Across Lifespan	3
COUN 5379	Methods Of Research	3
COUN 5385	Pre-Practicum: Techniques Of Counseling	3
COUN 5391	Child & Adolescent Counseling [1]	3
COUN 5392	Cross Cultural Issues In Counseling	3
COUN 5397	Human Growth & Development Across the Lifespan	3
COUN 6332	Theories: Marriage, Couples, and Family Counseling	3
COUN 6335	School Counseling: Leadership, Advocacy, and Accountability	3
COUN 6350	Counselor Ethics: Management, Law, and Practice	3
COUN 6363	Assessment in Guidance and Counseling	3
COUN 6364	Counseling For Addictions	3
COUN 6374	Group Counseling	3
COUN 6376	Supervised Practice In Counseling	3
COUN 6386	Internship (First Semester) [2]	3
or COUN 6387	School Counseling Internship	
COUN 6386	Internship (Second Consecutive Semester) [2]	3
or COUN 6387	School Counseling Internship	
Total Hours		**60**

[1] COUN 5399 Play Therapy Basics may be taken in place of COUN 5391 Child and Adolescent Counseling.
[2] COUN 6386 or COUN 6387 is taken twice for a minimum of six hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MEd in School Counseling is designed to provide graduates with the following marketable skills:

- Higher-order thinking.
- Oral and written communication.
- Professional conduct and ethical behavior.
- Multicultural and diversity competencies.

- Self-awareness of inter/intrapersonal relationships.
- Ability to apply counseling and development knowledge to professional practice.

Graduate Certificate in Marriage, Couple, and Family Counseling

The Graduate Certificate in Marriage, Couple, and Family Counseling is designed for students who want to gain specific training in family and couples therapy.

The 12-semester credit hour Graduate Certificate in Marriage, Couple, and Family Counseling will provide students with a deeper understanding of family systems theory, systemic approaches for working with couples and families, and effective strategies for working with a wide variety of issues.

Students pursuing an MA in Counseling or who already have a master's degree in a counseling-related field may apply for this certificate program.

SHSU is not able to provide students with guidance on LMFT requirements other than academic requirements.
Students interested in pursuing their LMFT should contact the Texas Behavioral Health Executive (https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.bhec.texas.gov%2F&data=05%7C02%7Ckwm019%40SHSU.EDU%7C50d1d058afcc41fb537b08dcdf225bd2%7Cb153cbd8b39247449b39e3cdb8677f00%7C0%7C0%7C638630585864689363%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=79yWe1LuNtkqHSfq2lJVtt1cr%2B8SCLPyTLyAn8jtMRc%3D&reserved=0) Council or visit the Texas Administrative Code website for more information.

This Graduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional Information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/marriage-couple-and-family-counseling/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Graduate Certificate in Marriage, Couple, and Family Counseling must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. a) A current student in good academic standing in the Department of Counselor Education **OR** b) Have completed a master's degree in a related discipline with a GPA of 3.0 or higher (requires submission of official transcript from the degree granting institution)

Code	Title	Hours
Graduate Certificate in Marriage, Couple, and Family Counseling		
Specified Courses		
COUN 6333	Techniques Of Couples Counseling	3
COUN 6337	Counseling For Sexual Concerns	3
COUN 6338	Techniques of Family Counseling	3
COUN 6370	Family Therapy Applications	3
Total Hours		**12**

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The Graduate Certificate in Marriage, Couples, and Family Counseling is designed to provide graduates with the following marketable skills:

- Specialization working with a family systems approach
- Higher-order thinking.
- Oral and written communication.
- Professional conduct and ethical behavior.
- Multicultural and diversity competencies.
- Self-awareness of inter/intrapersonal relationships.
- Ability to apply counseling and development knowledge to professional practice.

Graduate Certificate in Play Therapy

The Graduate Certificate in Play Therapy provides specialized academic training in therapeutic play modalities in 12 semester credit hours.

Students pursuing an MA in Counseling, a MEd in School Counseling, or who already have a master's degree in a counseling-related field may apply for this certificate program.

Students pursuing this graduate certificate may choose to pursue their credential as a Registered Play Therapist (RPT) through the Association for Play Therapy (APT). The Registered Play Therapist credential has additional requirements above the graduate certificate (i.e., clinical experience, PT specific training, licensing, and supervision). Consult the APT for complete details.

The Play Therapy Training Institute at SHSU is an Approved Provided by APT; however, APT holds the right to accept or deny any continuing education training at its discretion. SHSU is an APT Approved Provider #07-211.

This Graduate Certificate is not eligible to receive Title IV funding – Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/play-therapy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to work on their Graduate Certificate in Play Therapy must submit the following directly to the Office of Graduate Admissions:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from current program
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours

This certificate does not equate to an official Play Therapy certification by the Association of Play Therapy (APT). Students wishing to become certified Play Therapists must complete all requirements, application, and clinical experiences for consideration by APT. More information about Play Therapy certification is available here. (https://www.a4pt.org/)

For information regarding coursework for the Graduate Certificate in Play Therapy, please, contact the Play Therapy Coordinator Dr (kem031@SHSU.EDU). Sinem Akay-Sullivan in the Department of Counselor Education: 936-294-2538.

Students enrolled in the 12-credit hour Graduate Certificate in Play Therapy may be taking courses alongside SHSU students pursuing a master's or doctoral degree in Counseling. Course work for the Graduate Certificate in Play Therapy (3 credit hours each) are listed below.

This certificate does not equate to an official Play Therapy certification. Students wishing to become certified Play Therapists must complete all requirements and application through the Association of Play Therapy.

Code	Title	Hours
Graduate Certificate in Play Therapy		
Specified Courses		
COUN 5399	Play Therapy Basics	3
COUN 6331	Advanced Play Therapy	3
COUN 5391	Child & Adolescent Counseling	3
COUN 5398	Sandtray Therapy	3
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30 plan and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Play Therapy Certificate is designed to provide graduates with the following marketable skills:

- Advanced knowledge of challenges encountered by children
- Advanced skill and intervention training when providing counseling services to children
- Evidence-based counseling services to children
- Foundational education for specialized training toward Register Play Therapist designation managed by Association for Play Therapy

Graduate Certificate in Trauma and Loss

The Graduate Certificate in Trauma and Loss is offered to graduate students (MA, MEd, and PhD) pursuing degrees within the Department of Counselor Education. The 12-semester credit hour Graduate Certificate in Trauma and Loss is designed for students interested in working with crisis, grief, and trauma.

Applicants seeking admission to the Graduate Certificate in Trauma and Loss must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcripts for mental health-related degree(s)
4. Master's degree (or currently pursuing a degree at SHSU Department of Counselor Education) in a mental health-related discipline

Code	Title	Hours
Graduate Certificate in Trauma and Loss		
Required Courses		
COUN 5394	Crisis and Trauma Counseling [1]	3
COUN 6371	Advanced Grief and Crisis Counseling	3
COUN 6372	Neuroscience of Counseling	3
COUN 6394	Complex Traumatic Stress in Counseling	3
Total Hours		**12**

[1] COUN 5394 is a prerequisite for the other courses under this certificate.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Trauma and Loss is designed to provide graduates with the following marketable skills:

- Trauma counseling.
- Crisis intervention.
- Grief counseling.

Department of Educational Leadership

About

Chair: Dr. Eric Platt (eep032@shsu.edu)

Mission

Preparing leaders to impact a diverse and evolving world.

Vision

The Department of Educational Leadership has a unique role given our university's history as a teacher's college. We are situated at the crossroads of both a rural community and one of the largest urban areas in the country. We aim to create an inclusive environment that embraces the diversity of experiences our faculty and students bring from across P-16 in these communities. We believe in the importance of quality teaching and mentoring that is directive, informative, and inspiring. We are committed to fostering meaningful relationships, innovation, and scholarship that address critical issues in education so that we ***empower a courageous community of educational leaders to create the world we want to live in***.

Contact Information; (936) 294-1147

Website; Department of Educational Leadership (http://www.shsu.edu/academics/educational-leadership/)

- Ed.D in Educational Leadership (p. 1562) (K-12)
- Ed.D. in Higher Education Leadership (p. 1563)
- Masters of Arts in Higher Education Administration (p. 1565) (HIED)
- Masters of Education in School Leadership (p. 1567) (EDAD)
- Graduate Certificate in Academic Advising (p. 1568)
- Principal Certification (p. 1569) (Texas)
- Superintendent Certification (p. 1570) (Texas)

Director/Chair: **Ronald Eric Platt**

Casey Camille Graham Brown, PHD (ccb068@shsu.edu), *Adjunct Faculty, Associate Dean COE*, *Department of Educational Leadership*, PHD, Univ of Oklahoma-Norman; MED, Univ of Oklahoma-Norman; BS, Southeastern Oklahoma St Univ

Christine Marie Butler, EDD (cmb013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MA, Northwestern St Un of Louisana; BA, Northwestern St Un of Louisana

Julie P Combs, EDD (jpc002@shsu.edu), *Distinguished Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BS, Texas A&M University

Rebecca Duncan-Ramirez, PHD (rlw003@shsu.edu), *Clinical Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Ferris State University; MED, Sam Houston State University; BBA, Sul Ross State University

Paul William Eaton, PHD (pwe003@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, LSU & A&M College; MED, Univ of Maryland-College Park; BA, Univ of Minnesota-Twin Cities

Matthew Bryan Fuller, PHD (mbf005@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Illinois State University; MS, Texas A&M University; BA, Texas A&M University

Tim T Harkrider, EDD (tth013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Univ of Texas-Arlington; BS, Stephen F Austin University

Janene Withers Hemmen, EDD (stdjwh22@shsu.edu), *Clinical Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Iowa State University

Peggy Philpot Holzweiss, PHD (pholzweiss@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Nichole J Karpel, EDD (njk017@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, George Washington University; MED, Penn State Un-Univ Park; BA, East Connecticut State Univ

Cynthia Martinez-Garcia, EDD (cmg021@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Texas A&M-Kingsville; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

Nara Martirosyan, EDD (nxm021@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MS, Grambling State Univ; BA, Tatev Pedagogical University

Staci Elizabeth Mizell, EDD (sem108@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Univ of Houston-Clear Lake; MBA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Ricardo Montelongo, PHD (rxm059@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Indiana University; MS, Texas A&M University; BS, Texas A&M University

Benjamin Scott Petty, MED (stdbsp11@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, MED, Sam Houston State University; BS, Florida College

Ronald Eric Platt, PHD (eep032@shsu.edu), *Professor and Chair of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Clare Amparito Resilla, EDD (clr067@shsu.edu), *Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Lamar University; BA, St. Theresa's College

David Patrick Saxon, EDD (dps006@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MBA, Appalachian State University; BSBA, Appalachian State University

Gabriela Judith Silvestre, PHD (gjs020@shsu.edu), *Assistant Professor of Education*, *Department of Educational Leadership*, PHD, University of Pittsburgh; MED, University of Pittsburgh; CERN, Universidad Nacional Del Lit

Susana Troncoso Skidmore, PHD (skidmore@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

John R Slate, PHD (jrs051@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Univ of Tennessee-Knoxville; MA, Univ of Tennessee-Knoxville; BA, Eastern Illinois University

Stacey Lynn Victor, EDD (sedmonson@shsu.edu), *Professor of Education and Dean, College of Education*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BA, Texas A&M University

Ed.D. in Educational Leadership

The doctoral program (Ed.D.) in Educational Leadership provides the highest professional degree available to candidates who aspire to leadership positions in Education, primarily in K-12 settings. The degree involves successful completion of a prescribed curriculum of both required and elective courses in professional studies, theory, and research methods up to a minimum of 60 hours of graduate credit. The doctoral degree is awarded upon successful completion of coursework and defense of a dissertation, which is a major independent research project carried out under the supervision of faculty advisors.

Graduates of the doctoral degree in Educational Leadership will have acquired the knowledge and skills to lead K-12 school systems and serve in a leadership and consulting capacity in diverse educational organizations. The doctoral program focuses on developing leader-scholars who are prepared to effectively lead educational organizations by (a) supporting professional development for instructional improvement; (b) applying evidence-based practices in educational research and program evaluation through research design and interpretation; and (c) advocating for sound policies that support the success of all students.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/educational-leadership/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Admission to the doctoral program in Educational Leadership is competitive. Applicants are encouraged to submit required materials and prepare a high-quality personal statement and resume.

The Educational Leadership doctoral program utilizes a cohort model where individuals are admitted as a group or a cohort. Cohort members take their courses together. Cognates (electives) vary. Some students complete the Texas superintendent certification as their cognate area. A select number of applicants are admitted to a cohort.

Admission Deadlines

The priority deadline for cohort admission is March 15 or October 15. Priority is given to completed applications received by these dates. Applications will be accepted until the university deadline based on space availability.

To ensure full consideration for cohort admission, applicants should submit all required materials before the priority deadline.

Cohort	Classes Begin	Application Deadline
Educational Leadership (K-12)	Summer (June)	March 15: Priority Deadline
	Spring (January)	October 15: Priority Deadline

Applicants seeking admission to the doctoral program in Educational Leadership must submit the following to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Admission Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Official transcript(s) showing receipt of a master's degree in a related field from an accredited institution
5. Resume (describing education, work history, leadership experiences, and listing at least 3 professional references)
6. Application Essay. Not to exceed 1,800 words and thoroughly address these specific questions in an essay:
   a) What are some highlights of your professional career?
   b) What are some experiences that demonstrate your **leadership** strengths?
   c) What are your professional goals?
   d) What reasons do you have for pursuing a Doctorate of Education (Ed.D.) in Educational Leadership (K-12) at Sam Houston State University?

Note: Applicants selected after the initial screening will be invited for an interview.

Applicants should hold a master's degree in a related field, and the student's graduate GPA should be 3.5 or higher. In addition, three years of full-time professional experience in a school or agency is preferred.

The program requires a minimum of sixty hours of graduate credit, successful passing of a comprehensive examination, and completion of a dissertation.

Code	Title	Hours
Ed.D. in Educational Leadership		
Leadership Core		
EDLD 7337	Academic Writing & Research	3
EDLD 7331	Leadership Theory/Application	3
EDLD 7111	Doctoral Studies in Educational Leadership [1]	3

EDLD 7333	Societal Factors Affecting Education	3
EDLD 7370	Education Policy and Ethics	3
EDLD 7338	Organizational Behavior and Theory in Education	3
EDLD 7361	Program Evaluation in Education	3
EDLD 7332	Instructional Theory and Applications	3
or EDAD 6383	Learner Centered Leadership	
Research Tools		
EDER 7362	Methods of Education Research	3
EDER 7365	Statistical Methods	3
EDER 7374	Advanced Statistical Methods	3
EDER 7372	Qualitative Inquiry	3
EDLD 7363	Proposal Development	3
Cognate		
EDAD 6380	Executive Leadership for Superintendents	3
EDAD 6382	Human Resource Management	3
EDAD 6381	District Business and Financial Management	3
EDAD 6384	Superintendent Practicum	3
Dissertation		
EDLD 8033	Dissertation [2]	9
Total Hours		**60**

[1] EDLD 7111 must be taken three times for a total of three hours.

[2] EDLD 8033 must be taken at least three times for a minimum total of nine hours. Once enrolled in this course, the student must enroll in it until graduation.

Note: The 12 hours of cognate can vary based on candidate interests and goals. Additional TEA requirements are needed to obtain a Texas Principal or Superintendent certification.

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The EdD Educational Leadership degree is designed to provide graduates with the following marketable skills:

- Collect, analyze, and interpret data through the lens of theories and practice.
- Defend research findings to practitioners and researchers.
- Employ advanced oral and written communication skills.
- Synthesize empirical literature for research trends.
- Design, conduct, report, and share independent research projects.

Ed.D. in Higher Education Leadership

The doctoral program in Higher Education Leadership provides the highest professional degree available to students who aspire to leadership positions at the college or university level and across the P-20 spectrum. The degree includes a curriculum of a minimum of sixty hours of graduate credit with concentrations in Administration and Academic Support Programs. The doctoral degree is awarded on the basis of successful completion of coursework, assessment of professional dispositions, research competencies, and completion of a major research project resulting in the presentation and defense of a dissertation.

Graduates of the doctoral degree in Higher Education Leadership are able to apply administrative and student development theory in leading today's institutions of higher education; set and assess goals for program and student performance; effectively and ethically use resources in support of institutional missions; plan and provide for academic programs' curricula; apply student development theory to support student success; support and enhance diverse perspectives on learning and leading; interpret the relationships among federal, state, and local education agencies and the laws applicable to the administration of colleges and universities; design educational research; and interpret and utilize results for improvement.

The program offers two modalities of instruction: a) Face-to-face instruction for the Administration Concentration (Spring admission), and b) Fully online instruction for the Academic Support Programs concentration (Summer admission). General program advising for students occurs on a regular basis and students may request individual, in person, or remote advising meetings with the program director as needed.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/higher-education-leadership/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Higher Education Leadership program follows a cohort model, which means that individuals are admitted to a specific group, called a cohort, and are required to take their coursework at the same time as the other individuals in the cohort for the duration of their enrollment in the program. When students enter a cohort, they specialize on either the Administration concentration (Spring entry; face-to-face) or the Academic Support Programs (Summer entry; online). This model provides students multiple support systems to utilize as they progress through the doctoral curriculum. In the event of emergencies that require individuals to drop out of the normal schedule, they may be required to join another cohort with a different schedule.

Application Deadlines

New cohorts begin each Spring semester (face-to-face in Administration concentration) and Summer (fully online in Academic Support Programs concentration). To ensure full consideration for cohort admission, applicants should submit all required materials before the priority deadlines [December 1 (Face-to-face, Administration) or April 15 (Online; Academic Support Programs)]. A limited number of applicants for non-cohort-based admission may be considered in other semesters as space allows and at the discretion of the program director.

Applicants seeking admission to the doctoral program in Higher Education Leadership must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Admission Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Official transcript(s) showing receipt of a master's degree from an accredited institution
5. Graduate GPA of 3.5
6. Resume (with description of education, work history, leadership experiences, and contact information for at least 3 professional references)
7. Personal statement. Not to exceed 1,800 words. Please, address the following:
   a) What are some highlights of your professional career?
   b) What are some experiences that highlight your leadership strengths?
   c) What are your professional goals?
   d) What reasons do you have for pursuing a doctoral degree?
   e) Please address any performance or academic indicators that may be of concern to the admissions committee.

Note: Applicants selected after the initial screening will be invited for an interview and research presentation conducted in person or online for their respective admission cycle.

Applicants should hold a master's degree, and the student's graduate GPA should be 3.5 or higher. In addition, three years of full-time professional experience in an accredited college, university, school district, or educational setting is preferred.

The program requires a minimum of sixty hours of graduate credit, successful passing of a comprehensive examination, and completion of a dissertation.

After the completion of twelve to eighteen semester hours (two or three semesters) of doctoral level coursework in the program, each student will be considered for full admission to candidacy. A doctoral program committee will review his/her academic progress, interpersonal skills, dispositions, and motivation to determine whether the student should continue with the program. After full admission to the program, the student's doctoral dissertation committee will be assigned by the Director of Doctoral Studies.

A comprehensive examination will be taken in the latter part of the program's curriculum. Students must be enrolled in coursework during the semester the comprehensive examination is taken. After successful completion of the comprehensive examination and proposal course, the student may defend the dissertation proposal.

Code	Title	Hours
Ed.D. in Higher Education Leadership		
Required Courses		
EDER 7362	Methods of Education Research	3
EDER 7365	Statistical Methods	3
EDER 7374	Advanced Statistical Methods [3]	3
or EDER 7375	Advanced Qualitative Inquiry	
or DVED 7336	Internship in Developmental Education	
EDER 7372	Qualitative Inquiry	3
EDLD 7337	Academic Writing & Research	3
EDLD 7363	Proposal Development	3

HEDL 7110	Doctoral Studies in Higher Education [1]	3
HEDL 7332	Administration of Higher Education [3]	3
or EDLD 7371	Contemporary Issues in Higher Education Leadership & Admin	
HEDL 7361	Assessment and Evaluation in Higher Education [3]	3
or DVED 7366	Outcome Assessment in Developmental Education	
HEDL 7374	The College Student [3]	3
or DVED 7365	Student Noncognitive Development	
HEDL 7377	Leadership of Higher Education Institutions	3
Concentration: Administration OR Academic Support Programs		**18**
Administration		
HEDL 7370	Higher Education Policy and Governance	
HEDL 7372	Diversity and Culture in Higher Education	
HEDL 7373	History of American Higher Education Systems	
HEDL 7375	Higher Education Finance	
HEDL 7376	Teaching & Learning in HiEd	
HEDL 7378	Legal Issues in Higher Education	
Academic Support Programs		
CIED 7331	Teaching Strategies for Developmental Mathematics	
DVED 7360	Developmental Education and Postsecondary Students	
DVED 7364	Advanced Learning Theory in Developmental Education	
DVED 7365	Student Noncognitive Development	
DVED 7367	Designing Learning Environments in Developmental Education	
LITC 7336	Strategies for College Reading in Developmental Education	
Dissertation		
HEDL 8033	Dissertation [2]	9
Total Hours		**60**

1 HEDL 7110 must be taken three times for a total of three hours.

2 HEDL 8033 must be taken at least three times for a minimum total of nine hours. Once enrolled in this course, the student must enroll in it until graduation.

3 Students must complete all courses in their respective concentrations to receive credit for that concentration. The Administration concentration includes HEDL 7370, HEDL 7372, HEDL 7373, HEDL 7375, HEDL 7376, and HEDL 7378. The Academic Support Programs concentration includes DVED 7360, DVED 7336, DVED 7364, DVED 7367, DVED 7365,CIED 7331, LITC 7336.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The EdD in Higher Education Leadership is designed to provide graduates with the following marketable skills:

- Lead higher education institutions in today's complex environments.
- Produce and leverage research to inform educational practice.
- Advance a critical consciousness of the importance of diversity, equity, inclusion, student development theory, finance, law, and other topics.
- Describe the roles, functions, and interrelationships among a college or university's major constituents.
- Plan, evaluate, and assess student learning, program effectiveness, and performance in an ethical and legally defensible manner.
- Utilize oral and written communication skills to support scholarly pursuits.
- Apply knowledge and expertise in developmental education, student support, community college and university leadership, and student success.

Master of Arts in Higher Education Administration

The Master of Arts in Higher Education Administration will prepare students for mid-level administrative and leadership positions at higher education institutions and for further doctoral studies in the field. The program is designed to enhance career-related skills and competencies and will focus on student services, career services, enrollment management, residence life, financial aid, student success, resource allocation, and other administrative functions.

This degree may be completed with or without a thesis. Students seeking the MA in Higher Education Administration may also opt to pursue the Academic Advising Certificate.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/higher-education-administration/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Arts in Higher Education Administration must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Admission Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours
5. Two Reference Forms
6. Professional Statement
7. Current Resume
8. **University Application Deadlines**
   Fall: August 1st
   Spring: December 15th
   Summer: May 15th

Please contact the Department of Educational Leadership (https://www.shsu.edu/academics/educational-leadership/) for additional requirements: Box 2119, Huntsville, Texas 77341 or by phone (936) 294-1147 or edl@shsu.edu.

Program Contact: highered@shsu.edu

Program Coordinator: Dr. Gabriela Silvestre (gjs020@shsu.edu)

Course Prerequisites are strictly observed.

Code	Title	Hours
Master of Arts in Higher Education Administration (Non-Thesis)		
Required Courses		
HIED 5360	History and Organization of Higher Education	3
HIED 5362	Higher Education Resource Management	3
HIED 5364	Leadership in Education	3
HIED 5365	Academic Affairs in Higher Education	3
HIED 5366	Assessment in Higher Education	3
HIED 5367	Diverse Student Populations	3
HIED 5378	Legal Issues in Higher Education Administration	3
HIED 5379	Research in Higher Education	3
HIED 6360	Student Services In Higher Education	3
HIED 6372	Practicum in Higher Education [1]	3
Electives		
Select two (2) of the following:		6
HIED 5088	Special Topics in Higher Education (limited usage, once per 3 SCH)	
HIED 5361	Contemporary Issues in Higher Education	
HIED 5370	Career Advising in Higher Education	
HIED 5390	Concepts in Academic Advising	
HIED 6371	Fundamentals of Data Management	
HIED 6374	Statistics for Institution Research	
Total Hours		**36**

[1] Selection of a practicum site should be made in consultation with the Practicum Coordinator. Sections of the practicum are offered during the fall and spring semesters only.

Code	Title	Hours
Master of Arts in HIgher Education (Thesis)		
Required Courses		
HIED 5360	History and Organization of Higher Education	3
HIED 5362	Higher Education Resource Management	3
HIED 5364	Leadership in Education	3
HIED 5365	Academic Affairs in Higher Education	3
HIED 5366	Assessment in Higher Education	3
HIED 5367	Diverse Student Populations	3
HIED 5378	Legal Issues in Higher Education Administration	3
HIED 5379	Research in Higher Education	3
HIED 6360	Student Services In Higher Education	3
HIED 6374	Statistics for Institution Research	3
HIED 6387	Thesis	3
Electives		
Select one (1) of the following:		3
HIED 5088	Special Topics in Higher Education (limited usage, once for 3 SCH)	
HIED 5361	Contemporary Issues in Higher Education	
HIED 5370	Career Advising in Higher Education	
HIED 5390	Concepts in Academic Advising	
HIED 6371	Fundamentals of Data Management	
Total Hours		**36**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Higher Education Administration is designed to provide graduates with the following marketable skills:

- Use and critique of appropriate theory to understand, support, and advocate student learning and development.
- Design and evaluate learning experiences for students based on knowledge of how student learning and learning opportunities are influenced by student characteristics and college environments.
- Develop leadership, organizational, and management practices that could be applied to assist institutions in accomplishing their missions.
- Conduct and design studies, produce evaluations, and reports on sound research studies, assessment studies, or program evaluation, all grounded in the appropriate literature.
- Apply assessment results to inform and improve professional practice and student learning.
- Design and evaluate effective interventions for individuals and groups in college and university settings.

Master of Education in School Leadership

The Master of Education in School Leadership is a thirty-credit hour program designed specifically for educators who wish to work towards Principal Certification (p. 1569). The program complies with existing standards for professional certification to produce proficient school administrators who are well educated in school leadership and administration; effective leadership strategies; campus business management; and federal, state, and local school regulations. Candidates in this program will also possess the skills necessary to evaluate programs for overall school improvement, improve instruction and curricula, and understand how diverse populations and special programs affect a school and its community. A comprehensive examination is required toward the end of the program coursework. The study plan originates in the Department of Educational Leadership.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/school-leadership/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the M.Ed. in School Leadership must submit the following directly to the Office of Graduate Admissions:

1. ApplyTexas application (https://www.shsu.edu/apply/) and application fee
2. Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) ($35 paid to TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9)) if seeking Texas Principal certification
3. Official transcript from the baccalaureate degree-granting institution with a GPA of 3.0 overall or in the last 60 hours
4. Copy of teacher service record from school district that reflects: 1) at least 1 year of certified teaching experience; and 2) current employment, all in Texas Education Agency-accredited schools. Note: At least 2 years of certified teaching experience are required for the Principal as Instructional Leader certification in Texas.
5. Copy of valid teaching certificate
6. Written essay
7. School Leadership Statement

University Application Deadlines:
Fall: August 1st
Spring: December 15th
Summer: May 15th

Direct questions to the Department of Educational Leadership at (936) 294-1147.

Candidates have 6 years from the semester of the first course to complete program/degree requirements and state certification (e.g., pass exams).

The degree requires thirty hours of graduate coursework. A comprehensive examination is required toward the end of the program coursework.

Code	Title	Hours
Master of Education in School Leadership		
Required Courses		
EDAD 5332	School Leadership	3
EDAD 5372	Federal, State, and Local School Law	3
EDAD 5386	Special Populations and Special Programs	3
EDAD 6310	School Culture and Communication	3
EDAD 6362	Principal Practicum/Internship [1]	6
EDAD 6370	Campus Business Management	3
EDAD 6371	Role of Principal in School Administration	3
EDAD 6378	Instructional Supervision	3
EDAD 6379	Program Evaluation For School Improvement	3
Total Hours		**30**

[1] EDAD 6362 Principal Practicum/Internship is taken over two long semesters fall and spring or spring and fall (3 hours each semester) and may be taken with one other course.

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The MEd in School Leadership is designed to provide graduates with the following **School Leadership/Instructional Leader** marketable skills to:

- Build trusting relationships.
- Use collaborative decision-making.
- Support data-driven instruction (building capacity of teachers, staff, and students).
- Practice ethical leadership.
- Observe and provide TTESS-aligned feedback .
- Lead effective professional development.

Graduate Certificate in Academic Advising

The online Academic Advising Certificate is designed for both beginners and experienced individuals interested in academic advising for higher education institutions. This certificate will provide enhanced training for academic advising professionals and is also valuable for individuals who have supervisory or leadership responsibilities in academic advising. The certificate requires 15 hours of graduate credit.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional Information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/academic-advising/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate in academic advising must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Two Recommendation Forms
5. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 semester credit hours

The certificate requires completion of fifteen hours of graduate credit.

Code	Title	Hours
Graduate Certificate in Academic Advising		
Specified Courses		
HIED 5367	Diverse Student Populations	3
HIED 5370	Career Advising in Higher Education	3
HIED 5390	Concepts in Academic Advising	3
HIED 6360	Student Services In Higher Education	3
HIED 6372	Practicum in Higher Education [1]	3
Total Hours		**15**

[1] Selection of a practicum site should be made in consultation with the Graduate Advisor.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Academic Advising is designed to provide graduates with the following marketable skills:

- Strong knowledge in academic advising theories.
- Enhanced training for academic advising.
- Expanded competences for support of students from different types of institutions.
- Training and knowledge for career advising.

Principal Certification

This certification plan is designed specifically for the educator who has previously obtained a master's degree in education and wishes to obtain Texas Principal as Instructional Leader certification. It requires the completion of 18 credit hours of graduate credit coursework. The program complies with existing standards for professional certification. The study plan originates in the Department of Educational Leadership.

Financial Aid Note: The 18-credit hour Principal Certification-only program is not eligible for financial aid whereas the degree-seeking 30-credit hour M.Ed. in School Leadership candidate may be eligible for financial aid.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/principal/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Principal Certification program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Admissions Application (https://www.shsu.edu/admissions/applications/)
2. Application Fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)
3. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (https://secure.touchnet.com/C21329_ustores/web/product_detail.jsp?PRODUCTID=1601) (paid to the TEA as required by TEA 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A))

4. Official transcript(s) from the baccalaureate degree-granting institution and the master's degree-granting institution, if applicable, with a minimum GPA of 3.0 overall or in the last 60 hours.
5. Copy of Teacher Service Record from your school district's Human Resource Department with two years of creditable teaching experience preferred; however, we will consider applicants with one year of certified teaching experience. (Applicant must be working at a Texas Education Agency accredited school.)
6. Copy of valid Teacher Certificate
7. School Leadership Statement
8. Written essay

University Application Deadlines:
Fall: August 1st
Spring: December 15th
Summer: May 15th

Candidates have six years from the semester of the first course to complete program requirements and state certification (e.g., pass exams).

Financial Aid Note: The 18-credit hour Principal Certification-only program is not eligible for financial aid whereas the degree-seeking 30-credit hour M.Ed. in School Leadership candidate may be eligible for financial aid.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/principal/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Principal Certification		
Specified Courses		
EDAD 5332	School Leadership	3
EDAD 5372	Federal, State, and Local School Law	3
EDAD 5386	Special Populations and Special Programs	3
EDAD 6362	Principal Practicum/Internship [1]	6
EDAD 6378	Instructional Supervision	3
Total Hours		**18**

[1] EDAD 6362 Principal Practicum / Internship is taken over two long semesters, fall and spring or spring and fall, (3 hours each semester) and may be taken with one other course.

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The Principal Certification is designed to provide graduates with the following marketable skills:

- Build trusting relationships.
- Use collaborative decision-making.
- Support data-driven instruction (building capacity of teachers, staff, and students).
- Practice ethical leadership.
- Observe and provide TTESS-aligned feedback.
- Lead effective professional development.
- Determine and support school improvement tasks.

Superintendent Certification

The Superintendent Certification program at Sam Houston State University is a professional certification program designed to prepare students for careers as school district superintendents in Texas. The program focuses on factual knowledge and theory, as well as practicum field experiences, to develop student knowledge and skills.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/superintendent/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Candidates seeking admission to the graduate programs in Superintendent Certification must meet the basic requirements of Graduate Admissions specified in the Admission section of this catalog.

Admissions Requirements

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) (paid to the TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A)) if seeking Texas Superintendent certification
4. Official transcript from the master's degree granting institution with a GPA of a 3.0 or higher.
5. Copy of SBEC issued standard Principal or Mid-Management and teacher certification
6. One reference from current or previous supervisor in a school or agency where the applicant has been employed
7. Copy of Teacher Service Record from your school district's Human Resource Department with two years of creditable teaching experience preferred; however, we will consider applicants with one year of creditable teaching experience. (Applicant must be working at a Texas Education Agency recognized school.
8. Leadership Statement
9. Written Essay

Submit all applications materials to Graduate Admissions. Electronic transcripts are accepted as official if sent to graduate@shsu.edu (graduate@shsu.edu)directly from your university or institution.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/superintendent/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Superintendent Certification		
Specified Courses		
EDAD 6380	Executive Leadership for Superintendents	3
EDAD 6381	District Business and Financial Management	3
EDAD 6382	Human Resource Management	3
EDAD 6383	Learner Centered Leadership	3
EDAD 6384	Superintendent Practicum	3
Total Hours		**15**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Superintendent Certification is designed to provide graduates with the following marketable skills:

- Collaborative leadership.
- Transparent communication.
- Inclusive decision making.
- Systems thinking orientation.

Department of Library Science and Technology

About

Chair: Holly Weimar, Ed.D. (hweimar@shsu.edu)

Contact Information: (936) 294-1151

Website: Department of Library Science and Technology (http://www.shsu.edu/libraryscience/)

Mission

The Department of Library Science and Technology provides professionals with the knowledge, skills, experiences, and dispositions necessary to serve diverse populations across the country and globally. The Department of Library Science and Technology also seeks to educate leaders who transform learning.

The Department is home to the Master of Library Science (MLS) and certification program for school librarians in Texas and to the programs for an undergraduate degree in Learning Technologies and a master's and doctorate in Instructional Systems Design and Technology (ISDT). Two graduate certificates are offered by the Department: (1) Educational Technology; and (2) Effective Online Instruction. The courses for the degrees and graduate certificates are designed to enhance learning and performance. All programs are 100% online. Faculty design learning experiences to provide students with the skills and knowledge necessary for opportunities in their respective fields. To learn more, please contact the Department about the programs that are offered.

Academic Programs

- Graduate students who are interested in becoming instructional technology professionals will need to pursue a Master of Education in Instructional Systems Design and Technology (ISDT).
- Graduate students who already hold an ISDT master's or similar degree and who desire to further their education at the next level will need need to pursue a Doctorate in ISDT.
- For those graduate students who are interested in becoming a school librarian, they must hold a teaching certificate, two years of teaching experience, and pursue a Master of Library Science unless they already hold an educational master's degree and are approved to seek school librarian certification only.

Values

- Student success
- Academic excellence
- Inclusiveness
- Collaboration
- Creativity and innovation

Highlights

- The School Librarian Preparation and Certification Program is Nationally Recognized by the American Association of School Librarians (AASL), a division of the American Library Association (ALA) and is part of the SHSU College of Education, which is an accredited educator preparation provider through the Council for the Accreditation for Educator Preparation (CAEP).
- The online programs have class sizes that provide an opportunity for close working relationships between faculty and students.
- The programs prepare graduates with critical thinking and problem-solving skills that may be applied to their careers.

Career Opportunities

- PK-12 school librarian
- Instructional technology professionals for:
  - PK-16 students
  - Private industry and businesses
  - Other instructional settings

- Ed.D. in Instructional Systems Design and Technology (p. 1574)
- Master of Education in Instructional Systems Design and Technology (p. 1577)
- Master of Library Science (p. 1578)
- Graduate Certificate in Educational Technology (p. 1579)
- Graduate Certificate in Effective Online Instruction (p. 1581)
- School Librarian Certification (p. 1581)

Director/Chair: **Holly Ann Kizer Weimar**

Rosemarie M Brock, PHD (rmb043@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BA, Oklahoma State University

Thomas S Edelberg, PHD (edelberg@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Indiana University; MA, California St Un-Northridge; BA, Univ of Calif-Los Angeles

Elizabeth A Gross, PHD (eag041@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Wayne State University; MLIS, Wayne State University; BA, Northern Michigan University

Dustin Michael Hebert, PHD (dmh104@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; EDSP, LSU & A&M College; MED, McNeese State University; BS, McNeese State University

Yao Huang, PHD (yxh051@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Florida State University; MS, The University of Memphis; BA, University of Electronic Science & Tech of China

Kimberly Campbell Kinnaird, PHD (kck017@shsu.edu), *Assistant Professor of Library Science*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BS, Texas A&M University

Kimberly N LaPrairie, PHD (knl007@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; MED, Univ of Louisiana-Lafayette; BBA, Henderson State University

Rebecca Maria Novotny, EDD (stdrmn11@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Sam Houston State University; MLS, Sam Houston State University; BA, Marymount College

Beverly Ann Smith-Edwards, PHD (bas076@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Univ of Oklahoma-Norman; MLIS, Univ of Oklahoma-Norman; BSED, Mayville State University

Holly Ann Kizer Weimar, EDD (hweimar@shsu.edu), *Professor and Chair of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Univ of Houston-Main; EDD, Univ of Houston-Main; MLS, Sam Houston State University; MLS, Sam Houston State University; BSED, Stephen F Austin University; BSED, Stephen F Austin University

Ed.D. in Instructional Systems Design and Technology

Overview

The Doctorate in Instructional Systems Design and Technology (ISDT Ed.D.) is a fully online cohort-based professional practice and scholarly doctoral program designed to prepare individuals across a wide range of industries, including PK-16 education, corporate training, healthcare, government, military, and non-profit organizations, to become leaders and scholars in designing, implementing, and evaluating effective digital learning solutions. The program is dedicated to developing individuals who can lead and transform educational institutions, organizations, and industries. It aims to cultivate graduates who are well-prepared to navigate the complexities of technology-enabled learning leadership and possess a deep understanding of the social, ethical, and legal dimensions of the digital landscape.

Upon completing the degree, graduates will be equipped to assume leadership roles such as chief learning officer, director of learning and development, instructional technology consultant, research scientist, higher education faculty, and other related positions.
Graduates will have the ability to:

- Inspire and lead the development and implementation of a shared vision for integrating technology to promote excellence and drive organizational transformation.
- Create, promote, and sustain a dynamic, digital learning culture that offers learners rigorous, relevant, and engaging experiences.
- Foster an environment of professional learning and innovation that empowers others to enhance learning through the integration of modern technologies and digital resources.
- Provide leadership and management in a digital age, driving continuous organizational improvement through effective use of information and technology resources.
- Model and facilitate a deep understanding of the social, ethical, and legal responsibilities that come with an evolving digital culture.

Vision

Our vision is to be a premier doctoral program in Instructional Systems Design and Technology, empowering individuals across diverse industries to excel as leaders and scholars in designing, implementing, and evaluating impactful digital learning solutions.

Mission

Our mission is to prepare forward-thinking leaders and scholars in Instructional Systems Design and Technology, equipping them with the knowledge, skills, and expertise to drive innovation and excellence in designing, implementing, and evaluating effective digital learning solutions across diverse industries, including education, corporate training, healthcare, government, military, and non-profit organizations.

Goals

Grounded in research-based educational practices, our program encompasses a set of focused goals designed to develop research expertise, foster comprehensive knowledge and skills, cultivate critical thinking and intellectual curiosity, prepare students for leadership roles, encourage collaboration and interdisciplinary engagement, and focus on the professional application of instructional systems design and technology. By pursuing the following goals, we aim to equip our students with the knowledge, skills, and mindset to make meaningful contributions in their fields, driving innovation and positively impacting the design and implementation of digital learning solutions across various industries:

- **Develop Research Expertise:** Provide students with a deep understanding of research practices in instructional systems design and technology, including acquiring substantive knowledge of the field and developing the ability to design and conduct research studies.
- **Acquire Comprehensive Knowledge and Skills:** Foster a thorough understanding of major controversies, theoretical positions, and emerging trends in instructional systems design and technology. Enable students to articulate researchable questions and apply advanced knowledge and skills to design, implement, and evaluate effective digital learning solutions.
- **Cultivate Critical Thinking and Intellectual Curiosity:** Encourage students to develop habits of mind that foster curiosity, critical analysis, and openness to changing perspectives based on well-founded arguments and evidence.
- **Prepare for Leadership Roles:** Equip students with the necessary skills and knowledge to assume leadership positions in research, consultation, and personnel preparation in instructional systems design and technology across diverse industries.
- **Foster Collaboration and Interdisciplinary Engagement:** Promote collaboration and interdisciplinary approaches to problem-solving, encouraging students to work effectively with diverse stakeholders in designing and implementing innovative digital learning solutions.
- **Focus on Professional Application:** Prepare educators to fulfill professional roles primarily in school-based settings, higher education institutions, and business and industry organizations, where they can apply their expertise to design, implement, and evaluate effective digital learning solutions that meet the unique needs of learners across a wide range of industries.

Additional Information

Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/instructional-systems-design-and-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Application Deadlines

Cohort	Classes Begin	Application Deadline
Instructional Systems Design and Technology	Fall (August)	August 1

Priority Application Deadline: March 1

Application Requirements for Doctoral Program in Instructional Systems Design and Technology

To be eligible for admission to the Doctoral Program in Instructional Systems Design and Technology, applicants are required to submit the following documents and fulfill specific criteria:

- **Graduate Studies Application**: Submission of a Graduate Studies Application (https://www.applytexas.org/) along with the corresponding application fee. Upon submission of the application, the applicant will receive an email to create their SHSU Self-Service portal.
- **Official Transcripts:** Presentation of official transcripts demonstrating the attainment of both a bachelor's and master's degree from accredited institutions. Applicants seeking admission to the professional practice Doctoral Program in Instructional Systems Design and Technology must hold a master's degree in Instructional Systems Design and Technology or a related field that encompasses the essential foundational knowledge for this program. Proof of graduation from accredited institutions at both the bachelor's and master's levels is mandatory. Additionally, applicants must have a graduate GPA of 3.5 or higher.
- **Professional Work Sample:** Inclusion of a sample of the applicant's professional work, which may consist of a published article or a project related to instructional technology design or multimedia design. This work should serve as evidence of the applicant's potential for scholarly achievement at the doctoral level and should be accompanied by a statement outlining the applicant's professional objectives.
- **Current Resume or Curriculum Vitae (CV):** Submission of an up-to-date and comprehensive resume or curriculum vitae.
- **Letters of Recommendation:** Provision of two letters of recommendation from individuals in educational or direct service settings. One of these recommendations should specifically address the applicant's direct experiences with instructional technology or multimedia design and evaluate the applicant's potential for success in the doctoral program.
- **Personal Interview:** After an applicant's SHSU Self-Service portal has been created, the program will email instructions for the pre-recorded interview. This interview consists of a 4-5 minute video during which applicants will respond to questions provided by the program. This interview serves as an opportunity for candidates to showcase their leadership potential, express their dedication to service, and convey their enthusiasm for applied research within the program.

Additional Considerations

- **Professional Experience:** Preference will be given to applicants who possess a minimum of three years of teaching, direct service, or administrative experience directly or substantially related to instructional technology or multimedia design. Such professional experiences in the applicant's background will be considered as evidence of both direct service roles and a strong commitment to the field of instructional technology.
- **Probationary Admission:** Applicants who do not meet one of the outlined criteria may still be considered for probationary admission if they demonstrate exceptional strength in other areas.

Plan of Study

To obtain the Ed.D. in Instructional Systems Design and Technology, each student must complete a minimum of 60 unique graduate credit hours, which are divided into two phases. This two-phase process typically consists of 48 hours of core coursework followed by 12 hours of dissertation work. In accordance with the cohort model, students commence and typically conclude the core coursework phase of the program alongside a consistent group of peers.

Upon completion of approximately 42 credit hours of required coursework, typically during the fall semester of the doctoral student's third year in the ISDT Ed.D. program, students finalize the comprehensive examination process with a digital portfolio known as a dossier. The doctoral dossier serves as a structured platform to present and organize the competencies achieved by the individual doctoral student within the program. With the aim of equipping students with the necessary knowledge, skills, dispositions, and experiences for success in the field, the dossier serves as the primary evaluative artifact for the qualifying comprehensive exam prior to admission to candidacy. Furthermore, it establishes the groundwork for the student's

scholarly vita/resume as they prepare to contribute to their chosen area within the field. The dossier exemplifies professional competencies in scholarship, learning design, and service, showcasing quality efforts that go beyond routine competence. It demonstrates the student's commitment to excellence and their contributions to the field. The student must be enrolled during the semester the dossier review is conducted.

Although the dissertation phase of the program is designed to be completed in 12 credit hours, the duration of the dissertation, from start to finish, is largely dependent upon each individual student's diligence and consistent communication with their dissertation chair. Continuous enrollment in Doctoral Dissertation hours (ISDT 8033) is required until degree completion.

This degree program does not have a residency requirement.

Code	Title	Hours
Doctorate of Education in Instructional Systems Design and Technology		
Instructional Systems Design and Technology Core		
ISDT 7315	Educational Network Design	3
ISDT 7325	Technology Sustainability	3
ISDT 7335	Management Application Analysis	3
ISDT 7336	Instructional Design Assessment	3
ISDT 7350	Issues in Instructional Technology	3
ISDT 7351	Distance Learning II	3
ISDT 7352	Instructional Planning	3
ISDT 7353	Professional Development	3
ISDT 7354	Leadership in Technology Administration	3
ISDT 7355	Program Evaluation	3
ISDT 7385	Doctoral Internship	3
ISDT 7388	Doctoral Field Studies	3
Educational Research Core		
EDER 7362	Methods of Education Research	3
EDER 7365	Statistical Methods	3
EDER 7372	Qualitative Inquiry	3
EDER 7374	Advanced Statistical Methods	3
Dissertation Required Courses		
ISDT 7391	Application of Research	3
ISDT 8033	Dissertation [1]	9
Total Hours		**60**

[1] ISDT 8033 must be taken at least three times for a minimum total of nine credit hours. Once enrolled in this course, the student must enroll in it until graduation.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

Graduates of the doctoral program in Instructional Systems Design and Technology are equipped with a diverse set of marketable skills valued by employers and graduate programs across various industries. Through our comprehensive curriculum, students develop expertise in instructional design, technology integration, curriculum development, research, and project management. These skills are applicable in PK-16 education, corporate training, healthcare, government, military, and non-profit organizations. As leaders and scholars in designing, implementing, and evaluating effective digital learning solutions, our graduates possess the following marketable skills:

- **Instructional Design and Technology Integration:** Analyze learners' needs, design effective learning experiences, integrate technology tools to enhance learning, and solve instructional and training problems.
- **Curriculum Development and Assessment:** Align learning objectives with educational standards, design assessments to measure learning outcomes, and ensure effective curriculum development.
- **Research and Data Analysis:** Conduct research studies, analyze data using statistical and computational methods, and effectively communicate research findings.
- **Project Management and Implementation:** Manage complex projects throughout the entire process, from needs analysis to design, implementation, and evaluation.

- **Scholarly Communication and Presentation:** Expertise in scholarly writing, including producing high-quality research papers and grant proposals, and presenting learning ideas creatively using multimedia tools.
- **Virtual Teamwork and Collaboration:** Effective and efficient in virtual team environments, utilizing communication and collaboration technologies to achieve shared goals.

Master of Education in Instructional Systems Design and Technology

The Master of Education in Instructional Systems Design and Technology (ISDT) is an online professional practice master's program designed to prepare individuals to become experts in the integration of technology in instructional systems. This program is a combination of courses specially designed to prepare candidates for careers as instructional designers in all areas of instruction and training. With a curriculum that teaches established learning and instructional theories as well as research-based instructional design methodology and best practices, graduates have opportunities for careers as instructional designers and coaches in business and industry, healthcare, military, government, and higher education institutions as well as in the traditional K-12 venue.These prepared technology practitioners can guide educational institutions, businesses, and industries in meaningful technology integration as it relates to training and continuing education programs. Support and service roles include instructional design, assessment of learning management systems, networking, and assessment and implementation of instructional software.

The program consists of 30 credit hours, utilizing a variety of methods to provide the most beneficial online learning experience. The program is entirely online and designed to provide individuals with the skills to effectively use instructional technology for learning, instruction, or professional training. In this online program, all course materials, resources, tasks, and assignments will be posted in the University's Learning Management System (i.e., Blackboard Online). You are expected to learn, interact with peers and instructors, and submit assignments online. You will be expected to be vigilant and prompt in responding online to the instructor and your peers. Also, you will be expected to meet online, possibly, with group members; that is dependent upon the arrangements of your group.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/instructional-systems-design-and-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Education in Instructional Systems Design and Technology must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree-granting institution
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours

Code	Title	Hours
Master of Education in Instructional Systems Design and Technology		
Required Courses		
ISDT 5319	Critical Analysis of Instructional Software	3
ISDT 5336	Educational Multimedia	3
ISDT 5337	Designing Instructional Material for the Web	3
ISDT 5338	Development of Technology Infrastructre in Schools	3
ISDT 5363	The Role of Technology Liaison	3
ISDT 5365	Technology And Cognition	3
ISDT 5367	Readings and Trends In Instructional Technology	3
ISDT 5369	Practicum-Technology Facilitation	3
ISDT 6335	Management Application Analysis I	3
ISDT 6351	Distance Learning I	3
Total Hours		**30**

The Texas Higher Education Coordinating Board marketable skills initiative is part of the State's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The online Master of Education in Instructional Systems Design and Technology program at Sam Houston State University is a combination of courses specially designed to prepare candidates for careers as instructional designers in all areas of instruction and training. With a curriculum that delivers established learning and instructional theories as well as an evidence-based learning design methodology and best practices, graduates have opportunities for careers as instructional designers and coaches in business and industry, healthcare, military, government, and higher education institutions as well as in the traditional K-12 venue. Marketable skills include:

- Identify learning, instructional, and training problems and needs.
- Use technology to solve learning, instructional, and training problems.
- Present learning, instructional, and training ideas creatively using technology.
- Evaluate and assess learning, instructional, and training environments and programs.
- Work on a virtual team efficiently and effectively

Master of Library Science

The Master of Library Science (MLS) is designed to prepare competent professionals for school librarianship. The MLS program will introduce students to library collection development that supports the curriculum as well as reading for pleasure; comprehensive review of children's and young adult literature; how to manage a school library; information and digital literacies; digital tools that school librarians use; reference and services; and cataloging, classification, and subject analysis techniques.

Graduates of the MLS program will also have the required coursework necessary for the School Librarian Certification exam in Texas. To be recommended for Texas certification, you must have a valid teaching certificate, two years of teaching experience, the requisite coursework to take the exam, as well as any other requirements included in the Texas Administrative Code for the School Librarian Certificate.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/library-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in library science must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

Admissions Review:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate institution with a GPA of 3.0 or higher. If GPA is lower than a 3.0, the last 60 hours of education can be used.

Program Review:

1. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) (paid to the TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A)) if seeking Texas School Librarian certification
2. A copy of a valid Texas teaching certificate
3. Teacher Service Record from your school district's Human Resource Department with two years of certified teaching experience preferred
4. Interview
5. Writing Sample

For instructions regarding the application process, please contact the Department of Library Science at (936) 294-1151 or visit the Office of Graduate Studies (http://www.shsu.edu/dept/graduate-studies/) program page.

This 36-hour master's degree provides instruction for the preparation of PK-12 school librarians. For school librarian certification in Texas, a passing score on the state's certification exam is required toward the end of the program's coursework.

Code	Title	Hours
Master of Library Science		
Specified Courses		
LSSL 5330	Collection Development	3
LSSL 5332	Organization of Collections I	3
LSSL 5334	Information Services and Resources I	3
LSSL 5337	School Library Administration	3
LSSL 5360	Literature For Children	3
LSSL 5366	Library Practicum/Intern	3
LSSL 5367	Research Design & Methodology	3
LSSL 5370	School Librarianship	3

LSSL 5385	Literature for Young Adults	3
LSSL 5391	Digital Technology for the School Librarian	3
LSSL 5396	Computer Science Applications to Librarianship	3
Elective		
Select one elective graduate course in LSSL		3
Total Hours		**36**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Master of Library Science is designed to provide graduates with the following marketable skills:

- Collaboration and teamwork.
- Ethical practices.
- Planning and organizational skills.
- Communication.
- Technology use in the library.
- Leadership.
- Creativity, critical thinking, and problem solving.
- Flexibility.

Graduate Certificate in Educational Technology

The Graduate Certificate in Educational Technology provides students with the necessary tools to critically analyze technology for instructional use and to apply technology to the curriculum in a coherent and intelligent manner. Individuals in PK-12 Education, Higher Education, Business/Industry, Medical, Military, and other professionals involved with training and professional development for their organization are suitable candidates for this program.

The Graduate Certificate in Educational Technology is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/educational-technology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants should submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (https://www.shsu.edu/admissions/applications/)
2. Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)
3. Official transcript from the baccalaureate degree-granting institution
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours

This graduate certificate program requires a minimum of fifteen hours of graduate credit as prescribed in the following plan.

Code	Title	Hours
Graduate Certificate in Educational Technology		
Specified Courses		
ISDT 5319	Critical Analysis of Instructional Software	3
ISDT 5336	Educational Multimedia	3
ISDT 5337	Designing Instructional Material for the Web	3
ISDT 5363	The Role of Technology Liaison	3
ISDT 5365	Technology And Cognition	3
Total Hours		**15**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Educational Technology is designed to provide graduates with the following marketable skills:

- Identify learning, instructional, and training problems and needs.
- Use technology to solve learning, instructional, and training problems.
- Work on a virtual team efficiently and effectively.

Graduate Certificate in Effective Online Instruction

The Effective Online Instruction graduate certificate provides students with the strategies and techniques necessary to effectively teach online courses. Individuals in Business/Industry, PK-12, Higher Education, Medical, Military, or professionals involved with training and professional development for their organization would be suitable candidates for this program.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/effective-online-instruction/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Effective Online Instruction must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution (a GPA of 3.0 or higher is preferred).

Code	Title	Hours
Graduate Certificate in Effective Online Instruction		
Specified Courses		
ISDT 5336	Educational Multimedia	3
ISDT 5365	Technology And Cognition	3
ISDT 5367	Readings and Trends In Instructional Technology	3
ISDT 6351	Distance Learning I	3
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Effective Online Instruction is designed to provide graduates with the following marketable skills:

- Identify learning, instructional, and training needs.
- Present learning, instructional, and training needs creatively using technology.
- Work on a virtual team efficiently and effectively.

School Librarian Certification

School Librarian Certification is designed for individuals who have previously obtained a master's degree and are seeking to become a school librarian.

The certification only program is designed to prepare competent professionals for school librarianship. Students will be introduced to library collection development that supports the curriculum as well as reading for pleasure; comprehensive review of children's and young adult literature; how to manage a school library; information and digital literacies; digital tools that school librarians use; reference and services; and cataloging, classification, and subject analysis techniques.

Upon successful completion of the required coursework, students who are classified as certification only will be recommended for the School Librarian Certification exam in Texas. To be recommended for Texas certification, you must have a valid teaching certificate, two years of teaching experience, a master's, the requisite coursework to take the exam, as well as any other requirements included in the Texas Administrative Code for the School Librarian Certificate.

Those who do not already hold a master's degree should seek the School Librarian Certification in conjunction with the Master of Library Science. (http://graduate-catalog-2015-2016.shsu.edu/home/library-science/master-of-library-science.html)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/school-librarian/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the School Librarian Certification program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

Admissions Review

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate institution with a GPA of 3.0 or higher. If GPA is lower than a 3.0, the last 60 hours of education can be used.
4. Official transcript from the master degree granting institution with a GPA of 3.0 or higher. If GPA is lower than a 3.0, the last 60 hours of education can be used.

Program Review

1. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) (paid to the TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A)) if seeking Texas School Librarian certification.
2. A copy of a valid Texas teaching certificate.
3. Teacher Service Record from your school district's Human Resource Department with 2 years of certified teaching experience preferred
4. Interview
5. Writing Sample

For instructions regarding the application process, please contact the Department of Library Science at (936) 294-1151 or visit the Graduate School (https://www.shsu.edu/dept/graduate-studies/) program page.

This 24-semester credit hour certification program provides instruction for the principles and procedures common to school libraries and information centers.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/school-librarian/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
School Librarian Certification		
Required Courses		
LSSL 5330	Collection Development	3
LSSL 5332	Organization of Collections I	3
LSSL 5334	Information Services and Resources I	3
LSSL 5337	School Library Administration	3
LSSL 5360	Literature For Children	3
LSSL 5366	Library Practicum/Intern	3
LSSL 5370	School Librarianship	3
LSSL 5385	Literature for Young Adults	3
Total Hours		**24**

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The School Librarian Certification is designed to provide graduates with the following marketable skills:

- Collaboration and teamwork.
- Ethical practices.
- Planning and organizational skills.
- Communication.

School of Teaching and Learning

About

Chair: Dr. Kristina Vargo (kkv003@shsu.edu), 936-294-4099

Assistant Chair: Dr. Will Blackwell (whb004@shsu.edu), 936-294-3923

Assistant Chair: Dr. Tori Hollas (vxh004@shsu.edu), 936-294-3225

Website: School of Teaching and Learning (http://www.shsu.edu/academics/school-of-teaching-and-learning/)

Welcome to the School of Teaching and Learning. The School is home to more than twenty programs at the undergraduate and graduate levels with instruction delivered through face-to-face classes on the Huntsville campus and at the Woodlands Center, as well as, through online learning. The award-winning faculty in the School of Teaching and Learning seek to provide students with opportunities to develop the knowledge and skills that will make them outstanding educators and productive leaders locally, nationally, and globally. Faculty and students engage in learning opportunities on campus, with school partners, and in the community. The School of Teaching and Learning is driven by the motto of the College of Education: Today's Learners, Tomorrow's Leaders. We invite you to visit the School of Teaching and Learning to explore the programs and people that make Sam Houston State University a leader in education.

- Ed.D. in Curriculum & Instruction (p. 1586)
- Master of Arts in Applied Behavior Analysis (p. 1589)
- Master of Education in Comparative and Global Education (p. 1590)
- Master of Education in Curriculum and Instruction (p. 1591)
- Master of Education in Literacy Instruction (p. 1592) (with or without Texas Reading Specialist)
- Master of Education in Special Education (p. 1595) (Educational Diagnostician)
- Master of Education in Teaching and Learning (p. 1598)
- Master of Education in TESOL (Teaching English to Speakers of Other Languages) (p. 1599)
- Graduate Certificate in Adult Education (p. 1600)
- Graduate Certificate in Bilingual (Spanish) Educational Diagnostician (p. 1601)
- Graduate Certificate in Digital Literacies (p. 1602)
- Graduate Certificate Dyslexia (p. 1603)
- Graduate Certificate in Early Childhood Education (p. 1604)
- Graduate Certificate in Second Language Instruction (p. 1605)
- Graduate Certificate in Special Education Transition Services (p. 1605)
- Educational Diagnostician Certification (p. 1606)
- Reading Specialist Certification (Post Graduate) (p. 1607)
- Teacher Certification (p. 1610)

Director/Chair: **Kristina K Vargo**

Burcu Ates, PHD (bxa013@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MA, Michigan State University; BA, Middle East Technical Univ

Andrea Lynne Beerwinkle, PHD (alb086@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas Tech University; BA, Texas A&M University

Jamie Heintz Benson, EDD (jlh015@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BBA, Sam Houston State University

Helen Berg, PHD (hberg@shsu.edu), *Professor of Education and Associate Dean of COED*, *Department of Teaching & Learning*, PHD, Univ of Colorado; MED, Lesley College; BS, Univ of N Carolina-Greensboro

William Hollis Blackwell, EDD (whb004@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Boston University; EDM, Harvard University; BA, Colgate University

Lisa Ogle Brown, EDD (lob002@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Univ of Houston-Main; BS, Texas A&M University

William John Calderhead, PHD (wjc011@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Oregon; MED, Univ of Maryland-College Park; MA, University of Virginia - SFS; BS, Univ of Maryland-College Park; BA, The Johns Hopkins University

Corinna O Cole, PHD (lls_cvc@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Sam Houston State University

Alma Linda Contreras-Vanegas, PHD (alc058@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Jaime Leigh Coyne, PHD (jlb110@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Stephen F Austin University; BS, Sam Houston State University

Clayton Reed Dodson, PHD (crd073@shsu.edu), *Assistant Professor of Practice for Education*, *Department of Teaching & Learning*, PHD, University of North Dakota; MED, University of North Dakota; BSED, Mayville State University

Jaime Betancourt Duran, PHD (jbd023@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Univ of Texas-Pan American; BA, Univ of Texas-Pan American

William D. Edgington, EDD (wedgington@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Midwestern State University; BSED, Texas Christian University

Andrea S Foster, PHD (asf004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Texas A&M University

Hannah R Gerber, PHD (hrg004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Alabama-Tuscaloosa; MS, Florida State University; BA, Florida State University

Amber Joyce Godwin, PHD (ajg007@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Univ of West Florida

Pooja Gupta, EDD (pxg055@shsu.edu), *Clinical Assistant Professor of Special Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MS, Univ of Houston-Clear Lake; BED, Women's University; BC, University of Bombay

Christina Marie Gushanas, PHD (cgushanas@shsu.edu), *Eleanor and Charles Garrett Endowed Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Lamar University

Susan Renee Harte, EDD (susanharte@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, East Texas A&M; MED, Lamar University; MA, Univ of Nebraska-Omaha; BSED, Peru State College

Desiree Gretchen Hickman, EDD (dgh029@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Jackson State University; MS, Jackson State University; BS, Alcorn State University

Victoria Smith Hollas, PHD (torihollas@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; BA, Houston Christian University

Jacqueline M Ingram, EDD (jmi002@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Texas A&M University; BS, Texas A&M University

Allen W. Kaminski, MS (awk002@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Sam Houston State University; BS, Sam Houston State University

Andrey Vitalyevich Koptelov, PHD (axk022@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Academy of Pedagogical Science; BED, Kirov State Pedagogical Inst

Leena Jo Landmark, PHD (landmark@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Mae Ann Lane, EDD (mal024@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, East Texas A&M; BA, Abilene Christian University

Joyce Kay McCauley, PHD (edu_jkm@shsu.edu), *Distinguished Professor of Education*, *Department of Teaching & Learning*, PHD, Texas Woman's University; MED, Univ of Guam; BA, Univ of South Florida

Jessica Ann McQueston, PHD (jam391@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Wisconsin-Madison; MA, Univ of New Mexico; BSED, Univ of New Mexico; CERT, Univ of New Mexico

Melinda Sue Miller, PHD (lls_msm@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BSED, Univ of Texas At Austin

Diana Kay Nabors, EDD (lls_dkn@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Univ of Houston-Main

Lautrice Mc Carty Nickson, PHD (lmn005@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Prairie View A&M University; MED, Sam Houston State University; MED, Loyola University Maryland; BS, Mississippi State University

Jill Saundra Pagels, EDD (jsp018@shsu.edu), *Clinical Assistant Professor of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Univ of Arizona

Michelle Renae Parker, EDD (stdmrh14@shsu.edu), *Assistant Professor of Practice of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Sam Houston State University

Mary Ann Petron, PHD (map042@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MA, Northwestern University; BSED, Univ of Wisconsin-Madison

Prasopsuk Yabsantiya Pinto, EDD (pyp001@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MS, Texas A&M-Kingsville; BED, Chulalongkorn University

Jalene Paige Potter, PHD (jpp015@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M-Corpus Christi; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

Debra Patricia Price, PHD (edu_dpp@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MED, LSU & A&M College; BS, Univ of Colorado

Jolene Buxton Reed, PHD (jreed@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of New Mexico; MA, Univ of New Mexico; BS, Brigham Young University

Abdelilah Salim Sehlaoui, EDD (asehlaoui@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Mohamed Ben Abdellah Univ

Abbie Ruth Strunc, PHD (abbie.strunc@shsu.edu), *Professor of Education and Associate Dean, College of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MED, Texas A&M University; BA, Texas A&M University

Veronica Diana Tristan, EDD (vdt001@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Downtown; MED, Sam Houston State University; BA, Univ of Houston-Downtown

Francisco Usero Gonzalez, PHD (fug002@shsu.edu), *Assistant Professor of School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Univ of Houston-Main

Baburhan Uzum, PHD (uzum@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Michigan State University; MA, Middle East Technical Univ; BA, Middle East Technical Univ

Kristina K Vargo, PHD (kkv003@shsu.edu), *Professor of Education and Chair, School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Southern Illinois U-Carbondale; MS, Southern Illinois U-Carbondale; BS, Univ of Wisconsin-Eau Claire

Rebecca Ann Wentworth, PHD (raw034@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Colorado State University; MED, Oakland University; BSED, Central Michigan Univ

Chase Jonathan Young, PHD (cxy010@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MS, Walden University; BA, Metropolitan St Univ of Denver

Ed.D. in Curriculum and Instruction

The Doctor of Education degree in Curriculum and Instruction provides the highest professional degree available to candidates who seek curriculum and instruction leadership positions. The degree requirements include a prescribed curriculum of required and cognate courses and the successful completion of a major research project resulting in the presentation and defense of a dissertation. A comprehensive examination will be taken after the completion of at least 45 hours of coursework. Students must be enrolled during the semester the comprehensive examination is taken. After successful completion of the examination, the student may enroll in the dissertation proposal process.

The program includes:

Code	Title	Hours
Core CIED Courses		21
Research Component		12
Cognate Area		18
Dissertation		9
Total Hours		**60**

Please see the curriculum outline for a complete listing of program course requirements.

The EdD Program is a modified cohort program. Individuals are admitted to a specific cohort and follow the schedule for the cohort to which they are assigned. Cognate courses may be taken independent from the rest of the cohort and with other members of their cognate. Cohort groups begin in June of each year. In the event of emergencies that require an individual to drop-out of the normal schedule, they may be required to join another cohort group with another schedule. Admission to the program requires a significant commitment of time for the duration of the individual's program. The inability to devote the necessary time will require the individual to drop-out of the program.

Candidates who complete this program can:

- directly help people in the community who need educational support
- train educators to help individuals and groups in the community
- connect with and develop organizations that support education
- develop new programs and approaches to educational instruction that meet the needs of diverse learners
- analyze, interpret, and disseminate educational assessment
- become educational scholars and share research with the field
- read and interpret educational research and disseminate best practices to educators through professional development and training
- systematically evaluate educational programs
- teach in colleges of education around the world

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/literacy/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Admission to the program requires a significant commitment of time for the duration of the individual's program. The inability to devote the necessary time will require the individual to drop out of the program.

This program follows a modified cohort model. Individuals are admitted to a specific group, called a cohort, and follow the schedule for the cohort to which they are assigned. Cognate courses may be taken independent from the rest of the cohort, but with other members of their cognate group. Cohorts begin in June of each year. In the event of emergencies that require an individual to drop out of the normal schedule, they may be required to join another cohort group with another schedule.

Applicants seeking admission to the doctoral program in Literacy must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (https://www.applytexas.org/adappc/gen/c_start.WBX)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) showing receipt of a baccalaureate degree and a master's degree from an accredited institution
4. Names and contact information of at least two professional references
5. The master's degree should be in literacy, TESOL, SPED or a related field with at least eighteen hours of graduate credit in their cognate field. Students without the prerequisite eighteen hours in their cognate field may be required to take additional coursework during the program.
6. The graduate GPA should be 3.0 or higher.

Applicants meeting the criteria above may be invited for an interview with the program coordinator. A candidate who fails to meet one of the admission requirements may receive probationary admission if sponsored by a doctoral faculty member.

Code	Title	Hours
Ed.D. in Literacy		
Specified Courses		
CIED 7339	Policy and the Curriculum	3
CIED 7349	Curriculum Studies	3
CIED 7359	Learning Theories and Praxis	3
CIED 7369	Philosophical Foundations of Education	3
CIED 7389	Advanced Survey of Curriculum Research in Education	3
EDER 7362	Methods of Education Research	3
EDER 7365	Statistical Methods	3
EDER 7372	Qualitative Inquiry	3
EDLD 7361	Program Evaluation in Education	3
LITC 7385	Digital Epistemologies	3
Select one of the following research courses:		3
EDER 7374	Advanced Statistical Methods	
EDER 7375	Advanced Qualitative Inquiry	
Prescribed Electives		
Select 18 hours of the following in your prescribed cognate:		18
Leadership in Curriculum Development Cognate		
CIED 5383	Integrating Current Technologies in Education	
CIED 5394	Curricula for Adult Learning	
EDLD 7331	Leadership Theory/Application	
EDLD 7337	Academic Writing & Research	
LITC 7360	Virtual Ethnography	
Approved 7000-level Elective in CIED, EDLD		
Literacy Cognate		
LITC 7300	Psychological & Social Foundations of Language & Literature	
LITC 7310	Literacy, Policy, and Change	
LITC 7330	Research in Language and Literacy	
LITC 7345	Literacy Assessment	
LITC 7366	Theories & History of Literacy	
LITC 7367	Language Arts: Theory and Practice	
Special Education Cognate		
SPED 7301	Instructional Practices in Special Education	
SPED 7302	Legal Issues and Policies in Special Education	
SPED 7303	Functional and Curriculum-Based Assessment	
SPED 7305	Personnel Preparation and Collaboration	
SPED 7306	Small N Designs in Educational Research	
SPED 7316	Independent Research in Special Education	
Teaching English as a Second Language Cognate		
TESL 7301	Instructed Second Language Acquisition	
TESL 7303	Developing Materials for English Learners	
TESL 7305	Sociolinguistics	
TESL 7307	Teaching Second Language Writing	
TESL 7309	Teacher Ed in English as a Second or Foreign Language	
TESL 7311	Assessment of English as a Second/Foreign Language Learners	
Dissertation		**9**
CIED 8030	Dissertation in Literacy Leadership	

CIED 8320	Application of Literacy Research	
Total Hours		**60**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Ed.D. in Curriculum and Instruction is designed to provide graduates with the following marketable skills:

- Experience in teaching and conducting research in curriculum and instruction.
- Obtain content knowledge and credentials required for securing tenure-track professorships at colleges and universities.
- Establish connections with national and local organizations that support curriculum and instruction and research.
- Ability to develop programs and new approaches to curriculum and instruction that meet the needs of diverse learners.
- Acquire the qualifications necessary to train educators in curriculum and instruction.
- Experience systematically evaluating curriculum and instruction programs.
- Expertise in supporting individuals and groups who struggle with learning.
- Ability to read and interpret curriculum and instruction research and disseminate best practices to educators in the community and around the world.
- Skills required to design and coordinate curricula in the field of curriculum and instruction.

Master of Arts in Applied Behavior Analysis

This 36-hour degree plan is designed for individuals who are seeking board certification in behavior analysis. The degree plan originates in the School of Teaching and Learning.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/special-education-lida/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

To be regularly admitted to the graduate school, applicants must submit to the Office of Admissions:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official Transcripts for Bachelor's Degree
   a. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours
4. Two Recommendation Forms

Master of Arts in Applied Behavior Analysis

Code	Title	Hours
Master of Arts in Applied Behavior Analysis		
Required Courses		
SPED 6301	Applied Behavior Analysis [1]	3
SPED 6302	Seminar In Autism Spectrum Disorders	3
SPED 6303	Behavioral Intervention and Change Procedures [1]	3
SPED 6304	In-Home Training and Family Issues	3
SPED 6306	Evaluation and Measurement of Behavior [1]	3
SPED 6307	Behavioral Assessment Issues and Procedures [1]	3
SPED 6318	Ethics for Behavior Analysts [1]	3
Select one of the following:		3
SPED 5303	Study of Cognitive and Low Incidence Disabilities	
SPED 5304	Teaching Methods for Learners with Mild to Moderate Disab	
SPED 6305	Study of Behavior Disorders in Children	
SPED 6329	Behavior Analysis in Complex Organizations [1]	3
SPED 6331	Advanced Concepts and Principles in ABA [1]	3
SPED 6328	Practicum in Behavior Analysis	3
or SPED 6314	Thesis I: Research Methods in Behavioral Analysis	
SPED 6309	Internship	3
or SPED 6315	Thesis II	
Total Hours		**36**

[1] The Association for Behavior Analysis International (ABAI), Inc.® has approved the following course sequence as meeting the 5th edition coursework requirements for eligibility to take the Board Certified Behavior Analyst Examination®. Applicants will have to meet additional requirements to qualify.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Applied Behavior Analysis is designed to provide graduates with the following marketable skills:

- Apply scientifically derived principles about variables in the environment that affect socially significant behavior.
- Use Applied Behavior Analysis to support all individuals.
- Complete coursework needed to qualify to sit for the Behavior Analyst Certification Exam.

Master of Education in Comparative and Global Education

The Master of Education in Comparative and Global Education is a 30-hour program consisting of 18 hours of core courses through the School of Teaching and Learning and 12 hours of electives in a field of concentration. Core courses are designed from an educational policy foundations perspective to help students develop the ability to interpret knowledge within historical, philosophical, cultural, and social contexts. Fields of concentration can include: curriculum and instruction, adult education, instructional systems design and technology, teaching English to speakers of other languages, higher education administration, political science, sociology, public health, kinesiology, early childhood education, and special education. Other fields of concentration can be considered to meet the needs and interests of students. Core courses are offered online and concentration courses are offered at the discretion of that particular department. It should be noted that face-to-face or in-person classes cannot be guaranteed. The program will prepare students for variety of opportunities, such as:

1. teaching and conducting research in global comparative studies;
2. acting as specialists for United States and global programs, non-governmental agencies, and multilateral and bilateral technical assistance agencies in a variety of roles; and
3. engaging in analysis of educational policy issues in the United States and in other areas of the world.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/comparative-and-global-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Education in Comparative and Global Education must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application Fee (http://www.shsu.edu/admissions/apply-texas.html)
3. Official transcript from the baccalaureate degree-granting institution
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours

This 30 hour program includes 18 core C&I hours plus 12 hours of electives in a concentrated field. A graduate research project must be completed during the research courses, CIED 5370 and CIED 5371.

Code	Title	Hours
Master of Education in Comparative and Global Education		
Core Coursework		
CIED 5340	Foundations of United States Education	3
CIED 5341	Comparative Education	3
CIED 5342	Socio-Cultural Forces in Education	3
CIED 5343	Philosophy of Education	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
Electives in Concentrated Field		
Select four courses from one field, including:		12
Adult Education		
Curriculum and Instruction		
Digital Literacy		
Early Childhood Education		
Higher Education Administration		
Instructional Technology		
Kinesiology		
Literacy Instruction		
Public Health		
Political Science		
Sociology		
Special Education		
TESOL		
Other approved field of concentration		
Total Hours		**30**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MEd in Comparative and Global Education is designed to provide graduates with the following marketable skills:

- Teach and conduct research in global comparative studies.
- Act as specialists for United States and global programs, non-governmental agencies, and multilateral and bilateral technical assistance agencies in a variety of roles.
- Engage in analysis of educational policy issues in the United States and in other areas of the world.

Master of Education in Curriculum and Instruction

Program Coordinator: Dr. Tori Hollas, torihollas@shsu.edu

The Master of Education in Curriculum and Instruction is designed for educators interested in researching, developing and implementing curriculum changes to support achievement. This program allows educators to focus on curriculum methodology, pedagogy, and theoretical applications.

In addition, the program prepares educators to teach dual credit courses and/or courses at the community college level. In collaboration with an advisor in the School of Teaching and Learning, the student will develop an individual plan consistent with the student's interest and needs.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/curriculum-and-instruction/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Education in Curriculum and Instruction must submit the following directly to the Office of Graduate Admissions:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application Fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours

This program ranges from 30-36 hours. The number of hours varies based on the concentration area selected. Concentration hours may be taken in Curriculum & Instruction or another interest field. Students wishing to teach dual credit courses and/or courses at the Community College level will need an 18 hour Area of Concentration, for example, English, History, and Math.

Other Areas of Concentration may be selected, and will have a requirement of 12-18 hours, depending on departmental requirements.

Code	Title	Hours
Master of Education in Curriculum and Instruction		
Major: Foundation (18 SCH)		
CIED 5344	Theoretical Foundations for Curriculum	3
CIED 5384	Curricular Trends [1]	3
or CIED 5394	Curricula for Adult Learning	
CIED 5382	Instructional Coaching	3
CIED 5393	Assessment and Accountability	3
CIED 5370	Foundations of Education Research	3
CIED 5371	Applied Research in Education	3
Major: Prescribed Electives [2]		
Either select four CIED elective courses OR four-six 5000-7000 level elective courses from an approved field		12-18
CIED Electives (12 SCH)		
CIED 5333	Role of the Professional Educator	
CIED 5383	Integrating Current Technologies in Education	
CIED 5390	Advanced Methods for Classroom Management and Discipline	
CIED 5394	Curricula for Adult Learning	
CIED 5397	Human Growth & Learning	
Approved Field (12-18 SCH)		
5000-7000 Level Courses		
Total Hours:		30-36

[1] CIED 5394 can only be taken once to fulfill either the program core requirement OR the C&I elective coursework requirement.
[2] If your approved outside field area is 12 hours, no C&I Electives are needed. If you have chosen not to have an outside field area (Only field C&I), choose 4 C&I elective courses.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MEd in Curriculum and Instruction is designed to provide graduates with the following marketable skills:

- Prepares educators in researching, developing, and implementing curriculum changes to support student achievement.
- Prepares educators in curriculum methodology, pedagogy, and theoretical applications.
- Prepares educators to teach dual credit courses and/or courses at the community college level.

Master of Education in Literacy Instruction*

*With or without the Reading Specialist Certification

Our ILA Nationally Recognized (https://www.literacyworldwide.org/get-involved/awards-recognition/national-recognition/recipients/) with Distinction fully online Master of Education in Literacy Instruction with Reading Specialist Certification (CERN) and the Master of Education in Literacy Instruction (NON CERN) are designed for practicing professionals in the field of literacy. Both programs develop reflective practitioners with the knowledge and skills for effective reading/language arts instruction for Early Childhood through Secondary learners. Candidates will develop expertise as literacy specialists utilizing resources and methods, literacy assessments, and designing interventions to address varied learning needs of all students. Candidates will have the ability to become proactive instructional leaders and literacy advocates of students at all levels of literacy development. One hundred and sixty hours (160) Practicum/Field experience hours with a diverse learner population are embedded in both programs.

Graduates of these program routes have the potential to enhance their literacy classroom practices and/or pursue roles such as literacy coach/specialists, literacy interventionists, and adjunct instructors of undergraduate level literacy courses.

Med in Literacy Instruction with Reading Specialist Certification CERN (36 hours)

This degree is designed for teacher practitioners who are interested in obtaining the Texas Reading Specialist Certification to strengthen their understanding of literacy for application in their classroom or other school settings. Candidates for the Texas Reading Specialist Certification must have a valid elementary or secondary Texas teaching certification along with two years of successful teaching experience before taking the Reading Specialist exam (Two years can be concurrent with the program). One hundred and sixty hours (160) of practicum/field experience with diverse learner populations are embedded in the program. Field experience hours must be completed at a TEA approved location. Candidates are required to secure their own TEA-approved location for practicum experiences.

Applicants best suited for this degree would be those who hold a valid Texas Teaching certification, will have two years of experience in public education by the end of the program, live in Texas, and can conduct all field hours in a TEA approved location. Applicants who have earned a Masters or higher degree may seek the 24 semester credit hour certification route only.

Med in Literacy Instruction NON CERN (36 hours)

This degree is designed for practitioners both in and out of the classroom who want to strengthen their understanding of literacy as a literacy specialist for application in their classroom or other learning settings. One hundred and sixty hours (160) of practicum/field experience with diverse learner populations are embedded in the program. Candidates are required to secure their own location for practicum experiences. While both programs follow the same degree plans, this route will not lead to obtaining the Texas Reading Specialist Certification.

Applicants best suited for this degree would be those who live and/or teach out-of-state/country, teach private or home-school, are private literacy practitioners, or do not wish to sit for the Texas Reading Specialist exam.

Some coursework for this degree can apply toward the Graduate Certificate in Dyslexia concurrently and/or post-completion. Information on that program can be found at Graduate Certificate in Dyslexia. (http://catalog.shsu.edu/graduate-and-professional/college-departments/education/school-of-teaching-and-learning/dyslexia-certificate/#descriptiontext)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/reading-language-arts/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Note: The Dyslexia Certificate can be added to this plan.

To be regularly admitted to the graduate school, applicants must participate in an interview process and submit to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

University Application Deadlines:
Fall: August 1st
Spring: December 15th
Summer: May 15th

ALL applicants:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcripts for any Bachelor's or Master's degrees
   a. Minimum GPA of a 3.0, either overall or in the last 60 credit hours, for any Bachelor's and Master's degrees. If you are interested in the program but have less than a 3.0 GPA, contact the program coordinator.
4. Acceptable Professional Goals writing sample. This writing sample should be no more than two pages double-spaced and 12 pt font with proper essay format. The writing sample will be scored on the ability of the applicant to demonstrate awareness of context, audience, and purpose. Additionally, the writing sample should demonstrate the ability to use appropriate and relevant content, provide at least one credible source to support a point of view(s), and the ability to use written language to convey meaning with clarity.
   a. What have your experiences with reading/language arts been thus far which has led you to pursue a graduate degree?
   b. Select one belief about teaching literacy that you feel passionate about and explain why as well as how you came to this belief?
   c. Upon completion of the program, what are your goals for your earned Master of Education in Reading/Language Arts degree (If you are seeking Texas Reading Specialist Certification, include those goals as well.)
5. Video Interview. Video link uploaded with the application. The oral communication sample will be scored on the ability of the applicant to use an organizational pattern to communicate points, use appropriate language, be aware of the intended audience, use a variety of delivery techniques to make the presentation tentative, use supporting materials, such as showing examples, visuals, explanations, and/or other appropriate sources to establish support on the topic, and clearly has a central message to convey. Record a 3-4 minute video of yourself that answers the following questions.
   a. How many years have you been a classroom teacher?
   b. What experiences do you have teaching reading and/or language arts and what led you to pursue graduate studies specializing in literacy?
   c. What does it mean to be understanding, respectful, and inclusive of diverse populations?
   d. Explain and offer an example of how you would use technology to create authentic [literacy] learning.
   e. What are your expectations of this master's program, why should you be admitted into the program, and what do you intend to do once you have earned this degree?

For applicants seeking the Texas Reading Specialist certification:

In addition to the above required items:

1. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) (paid to the TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A)) if seeking Texas Reading Specialist certification
2. A copy of applicant's teaching certificate
3. A teacher service record with at least one year of successful teaching experience. If this is the applicant's first year, submit a letter from the principal on school letterhead stating you are "Teacher of Record." A formal service record must be submitted prior to completing all course work.
4. Official transcripts for any Bachelor's or Master's degrees

Note: ONLY Applicants with a complete file are reviewed for regular admission by graduate faculty in each program area and are selected by faculty based on information in the completed file.

All admitted graduate candidates follow a fall, spring, and summer cohort degree plan model with a specific course sequence based on semester admitted.

MEd in Literacy Instruction with Reading Specialist Certification (36 hours)

This degree is designed for teacher practitioners who are interested in obtaining a Texas Reading Specialist Certification to strengthen their understanding of literacy for application in their classroom or other school settings. Candidates for the Texas Reading Specialist Certification must have a valid elementary or secondary Texas teaching certification along with two years of successful teaching experience before taking the Reading Specialist exam (Two years can be concurrent with the program). One hundred and sixty hours of practicum/field experience with diverse learner population are embedded in the program. Field experience hours must be completed at a TEA approved location.

Reading Specialist Certification Requirements:

1. 36 hours course work
2. 160 hours of field experience (embedded into the program) in a TEA approved location
3. Valid Texas Teaching certificate and official educator service record (submitted with application)
4. At least 2 years teaching experience at completion of program

MEd in Literacy Instruction (36 hours)

This degree is designed for practitioners both in and out of the classroom who want to strengthen their understanding of literacy for application in their classroom or other learning settings. 160 hours of practicum/field experience with diverse learner population are embedded in the program. While both programs follow the same degree plans, this route will not lead to obtaining a Texas Reading Specialist Certification.

Requirements:

1. 36 hours course work
2. 160 hours of field experience (embedded into the program) in a program approved location (flexible)

Candidates are expected to follow their cohort degree/course sequence plan. Candidates take courses during fall, spring, and summer.

Code	Title	Hours
Master of Education in Reading/Lanuage Arts leading to the Reading Specialist Certification		
Required Courses		
BESL 5312	Second Language Literacy	3
READ 5304	Multisensory Language Learning [1]	3
READ 5306	Survey Of Reading	3
READ 5307	Literacy Assessment & Instructional Strategies Practicum I (with elementary populations) [2,3]	3
READ 5315	Language Arts: Theory and Instruction	3
READ 5317	Politics of Literacy	3
READ 5330	Literature and Instructional Materials in Reading Programs	3
READ 5335	Cognition & Emergent Literacy	3
READ 5340	Practicum of Literacy Asmt & Instrumental Strat II-Secd Pops (with secondary populations) [2,4]	3
READ 6088	Special Topics in Reading (Diagnosis and Correction of Literacy Learning Difficulties) [1]	3
READ 6310	Administration and Supervision of Literacy Programs [1]	3
READ 6320	Research and Literacy Leadership [4,5]	3
Total Hours		**36**

1 Includes 10-15 hours of Field Experience.
2 Prerequisite: READ 5306
3 Includes 30-40 hours of Field Experience with elementary populations.
4 Includes 30-40 hours of Field Experience.
5 Prerequisite: READ 5307;READ 5340

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The MEd in Literacy Instruction is designed to provide graduates with the following marketable skills:

- Literacy leadership skills to support roles such as literacy coach/specialists and literacy interventionists.
- Literacy advocacy skills.
- Higher education pedagogical skills to support roles such as adjunct instructors of undergraduate level literacy courses.

Master of Education in Special Education

The Master of Education in Special Education is designed to prepare professional educators with advanced competencies related to the field of special education. This is a 36-hour degree plan that originates in the School of Teaching and Learning. The candidate must successfully complete a departmental comprehensive examination. Candidates must be enrolled in coursework during the semester they take the comprehensive examination. The Master of Education (M.Ed.) in Special Education is accredited by CAEP, CEC, and SBEC.

The **M.Ed. in Special Education** course of study advances their students' knowledge and expertise in innovative research and teaching practices for learners with disabilities. This online program seeks to examine and refine disability policies informed by current research, implement and evaluate research-based practices, seek solutions to systemic injustice, and explore diverse cultural perspectives on disability. Students enrolled in the online M.Ed. Special Education program maximize their professional competence, career advancement, leadership roles, advocacy, and systems' change competencies. This online program offers the convenience of studying at one's own pace and in comfortable spaces.

The **M.Ed. in Special Education with Transition Services Certificate** course of study is aligned with the Council for Exceptional Children's Advanced Special Education Transition Specialist standards and is designed to meet the growing need for a specialized skilled set in transition services for special education teachers and professionals working in the field of special education transition services. Students enrolled in the online M.Ed. in Special Education with Transition Certificate program maximize their professional competence, career advancement, leadership roles, and advocacy and systems' change competencies in the field of transition. Courses are taught online; eleven (11) courses are online asynchronous and one (1) course is hybrid.

The **M.Ed. in Special Education with Educational Diagnostician Certification** course is designed to provide the academic foundations necessary for the Standard Educational Diagnostician Certification, with a strong emphasis on practical application. This program equips students with the knowledge, skills, and dispositions needed to apply research, methods, and recommended practices to effectively assess and instruct learners with special needs in diverse school and community settings. The program consists of 12 courses, each designed to prepare students for the real-world challenges of the field: seven (7) online lecture-asynchronous courses, two (2) practicum courses with online synchronous live lectures, and three (3) assessment courses that require four Saturdays of face-to-face participation throughout the semester, along with weekly hybrid synchronous online meetings.

The **M.Ed. in Special Education with Educational Diagnostician Certification and Bilingual (Spanish) Diagnostician Certificate course** of study provides the academic foundations necessary for the Standard Educational Diagnostician Certification. This program is designed for students with Spanish and English language proficiency who can evaluate emergent bilinguals (EB) as well as monolingual English speakers. Graduate students learn to conduct assessments in both English and Spanish, interpret results, and make educational recommendations for bilingual and monolingual learners with special needs. The program has a total of 12 courses. The description of the 12 courses is as follows: seven (7) online lecture-asynchronous courses, two (2) practicum courses with online synchronous live lectures, and three (3) assessment courses that require four Saturdays of face-to-face hybrid lecture participation throughout the semester along with weekly hybrid synchronous online meetings.

To be eligible to receive the Standard Educational Diagnostician Certification, a candidate must:

- Successfully complete an educational diagnostician preparation program that meets the requirements of TAC §239.82 (complete all the requirements on the SHSU Course Plan) and TAC §239.83.
- Successfully complete the examination based on the standards identified in TAC §239.83.
- Hold, at a minimum, a master's degree from an accredited institution of higher education that, at the time was accredited or otherwise approved by an accrediting organization recognized by the Texas Higher Education Coordinating Board.
- Hold a valid classroom teaching certificate.
- Have three creditable years of teaching experience as a classroom teacher (2 years of service may be earned while enrolled in the program).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/special-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

To be considered for regular admittance to the Graduate School and the M.Ed. in Special Education program, applicants must submit the following to the Office of Graduate Admissions:

1. Graduate application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcripts from all degrees earned
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours
5. Two recommendation forms
6. ***Transition Services****:* Curriculum vitae or resume
7. ***Educational Diagnostician****:* Interview video
8. ***Educational Diagnostician****:* Copy of applicant's Teaching Certificate

9. ***Educational Diagnostician****:* Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (https://secure.touchnet.com/C21329_ustores/web/product_detail.jsp?PRODUCTID=1601) (paid to the TEA as required by TAC 229.9.7)
10. ***Educational Diagnostician****:* Teacher Service Record with at least 2 years of creditable service as a teacher of record

Master of Education in Special Education

Code	Title	Hours
Master of Education in Special Education		
Specified Courses		
BESL 5302	Social and Cultural Language Influences On Learning	3
BESL 5304	Second Language Acquisition and Development	3
CIED 5370	Foundations of Education Research	3
ECHE 5349	Language and Literacy Development in the Young Child	3
READ 5335	Cognition & Emergent Literacy	3
SPED 5301	Education of Individuals with Disabilities	3
SPED 5303	Study of Cognitive and Low Incidence Disabilities	3
SPED 5304	Teaching Methods for Learners with Mild to Moderate Disab	3
SPED 6304	In-Home Training and Family Issues	3
SPED 6311	Seminar in Special Education	3
SPED 6313	Seminar in Language and Learning Disabilities	3
SPED 6321	Outcomes in Behavioral Interventions	3
Total Hours		**36**

Note: Courses are taught online (12 asynchronous online courses).

Master of Education in Special Education with Transition Services Certificate

Code	Title	Hours
Master of Education in Special Education (Transition Services Certificate)		
Specified Courses		
SPED 5301	Education of Individuals with Disabilities	3
SPED 5303	Study of Cognitive and Low Incidence Disabilities	3
SPED 5304	Teaching Methods for Learners with Mild to Moderate Disab	3
SPED 5306	Transition Services for Individuals with Disabilities	3
SPED 5307	Transition Assessment and Instruction	3
COUN 5370	Career Counseling Across Lifespan	3
or SPED 5308	Career Development & Employment for Youth with Disabilities	
SPED 5309	Leadership in Transition Services	3
SPED 6304	In-Home Training and Family Issues	3
SPED 6308	Practicum 1	3
SPED 6311	Seminar in Special Education	3
SPED 6313	Seminar in Language and Learning Disabilities	3
SPED 6321	Outcomes in Behavioral Interventions	3
Total Hours		**36**

Note: Courses are taught online (11 asynchronous online courses, 1 online synchronous live lecture)

Master of Education in Special Education with Educational Diagnostician Certification

Code	Title	Hours
Master of Education in Special Education (Educational Diagnostician Certification)		
Specified Courses		
SPED 5301	Education of Individuals with Disabilities	3
SPED 5302	Assessment in Special Education	3
SPED 5303	Study of Cognitive and Low Incidence Disabilities	3
SPED 5304	Teaching Methods for Learners with Mild to Moderate Disab	3

SPED 5305	Individual Assessment of Cognitive Functioning	3
SPED 6304	In-Home Training and Family Issues	3
SPED 6308	Practicum 1	3
SPED 6310	Assessment of Young Children and Low Incidence Populations	3
SPED 6311	Seminar in Special Education	3
SPED 6312	Practicum 2	3
SPED 6313	Seminar in Language and Learning Disabilities	3
SPED 6321	Outcomes in Behavioral Interventions	3
Total Hours		**36**

Note: The description of the 12 courses is as follows: seven (7) online lecture-asynchronous courses, two (2) practicum courses with online synchronous live lectures, and three (3) assessment courses that require four Saturdays of face-to-face hybrid lecture participation throughout the semester along with weekly hybrid synchronous online meetings.

Master of Education in Special Education with Educational Diagnostician Certification and Bilingual (Spanish) Educational Diagnostician Graduate Certificate

Code	Title	Hours
Master of Education in Special Education with Educational Diagnostician Certification and Bilingual (Spanish) Educational Diagnostician Graduate Certificate		
BESL 5314	Second Language Acquisition for Bilingual Diagnosticians	3
SPED 5301	Education of Individuals with Disabilities	3
SPED 5303	Study of Cognitive and Low Incidence Disabilities	3
SPED 5304	Teaching Methods for Learners with Mild to Moderate Disab	3
SPED 6304	In-Home Training and Family Issues	3
SPED 6308	Practicum 1	3
SPED 6321	Outcomes in Behavioral Interventions	3
SPED 6310	Assessment of Young Children and Low Incidence Populations	3
SPED 6311	Seminar in Special Education	3
SPED 6312	Practicum 2	3
SPED 6319	Bilingual Cognitive Assessment	3
SPED 6322	Bilingual Special Education Assessment	3
Total Hours		**36**

Note: The description of the 12 courses is as follows: seven (7) online lecture-asynchronous courses, two (2) practicum courses with online synchronous live lectures, and three (3) assessment courses that require four Saturdays of face-to-face hybrid lecture participation throughout the semester along with weekly hybrid synchronous online meetings.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The **M.Ed. in Special Education** (Online) is designed to provide graduates with the following marketable skills:

- Leadership opportunities in public-private education, non-profit agencies, and foundations.
- Knowledge and expertise in innovative research and teaching practices for learners with disabilities.

The **M.Ed. in Special Education with Transition Services Certificate** is designed to provide graduates with the following marketable skills:

- Special Education Transition Services Certificate composed of courses aligned with the Council for Exceptional Children's Advanced Special Education Transition Specialist standards.
- Knowledge, skills, and dispositions to provide transition assessment and services in order to prepare students with disabilities for living, learning, and working in their communities.

The **M.Ed. in Special Education with Educational Diagnostician Certification** is designed to provide graduates with the following marketable skills:

- Educational Diagnostician Certification.
- Knowledge and skills necessary to improve the performance of a diverse student population.
- Currency in best practices and research as related to both assessment and student learning.
- Skills necessary to provide educational assessment and evaluation, as required by the Individuals with Disabilities Education Act (IDEA) or other applicable law, for students from birth through adulthood.

The **M.Ed. in Special Education with Educational Diagnostician Certification and Bilingual Diagnostician Certificate** is designed to provide graduates with the following marketable skills:

- Educational Diagnostician Certification.
- Graduate Certificate in Bilingual (Spanish) Educational Diagnostician.
- Knowledge and skills necessary to improve the performance of a diverse student population.
- Currency in best practices and research as related to both assessment and student learning.
- Skills necessary to provide educational assessment and evaluation, as required by the Individuals with Disabilities Education Act (IDEA) or other applicable law, for students from birth through adulthood.

Master of Education in Teaching and Learning

The Master of Education in Teaching and Learning is a 30 hour program that includes 18 hours of core course work and 12 hours of certification-specific coursework. This program of study leads to the Master of Education degree and Texas teacher certifications in either PK-3 or EC-6, 4-8, and 7-12. A graduate research project must be completed during the research course CIED 5370.

Applicants interested in pursuing Masters of Education in Teaching and Learning should contact the School of Teaching and Learning (https://www.shsu.edu/academics/school-of-teaching-and-learning/) at (936) 294-3956 for more information.

The Master of Education in Teaching and Learning program at Sam Houston State University is fully accredited by the Texas Education Agency through the Texas Accountability System for Educator Preparation Programs.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/teaching-and-learning/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Education in Teaching and Learning program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html)
2. Application Fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)
3. Admission Essay
4. Application to the Educator Preparation Program (EPP).
5. A passing score on the Pre-admission Content (PACT) exam (https://tea.texas.gov/texas-educators/certification/educator-testing/pre-admission-content-test/) for certification area.
6. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) (paid to the TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A)) if seeking Texas Teacher certification.
7. Pay the $100 Educator Preparation Program Fee (https://secure.touchnet.com/C21329_ustores/web/product_detail.jsp?PRODUCTID=60).
8. Official transcript (indicating an undergraduate degree) from an accredited academic institution.
9. Candidates must have a minimum 3.0 GPA for the baccalaureate degree or the last 60 hours of coursework.

Code	Title	Hours
Master of Education in Teaching and Learning		
Core Coursework		
BESL 5318	Sheltered Instruction in Prekindergarten-12	3
CIED 5301	Alternative Teacher Preparation I	3
CIED 5302	Alternative Teacher Preparation II	3
CIED 5370	Foundations of Education Research	3
CIED 5398	Practicum in Classroom Instruction I	3
CIED 5399	Practicum in Classroom Instruction II	3
Certification Courses		

Select one of the following certification areas		12
PK-3 Certification Coursework		
ECHE 5343	Curriculum Development-Early Childhood Education	
ECHE 5349	Language and Literacy Development in the Young Child	
ECHE 5373	Theoretical Perspectives in Early Childhood Education	
ECHE 5375	Development Of The Young Child	
EC-6, 4-8, 7-12 Certification Coursework		
CIED 5382	Instructional Coaching	
CIED 5383	Integrating Current Technologies in Education	
CIED 5390	Advanced Methods for Classroom Management and Discipline	
CIED 5393	Assessment and Accountability	
Total Hours		**30**

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The MEd in Teaching and Learning is designed to provide graduates with the following marketable skills:

- Prepared to teach all content areas necessary for certification area
- Prepared to implement evidence-based methods of teaching and learning
- Fully qualified to teach in Texas Public schools

Master of Education in TESOL (Teaching English to Speakers of Other Languages)

The Master of Education in Teaching English to Speakers of Other Languages (TESOL) program prepares exemplary educational leaders in the field of second language teaching and learning. Faculty are dedicated to providing candidates with in-depth knowledge of theories of second language acquisition and methodologies, which promote second language literacy and learning at all educational levels. Program faculty share the philosophy that teaching and learning is a lifelong process, as expressed by many educators. Our program models this philosophy by supporting the development of lasting professional relationships among classmates, graduates, and faculty. The theoretical and practical training offered in our master's program allows students and graduates to work and teach in variety of language settings. We guide our students to construct their own educational philosophies within a framework which recognizes and values the many ways learners participate in and contribute to classroom learning communities.

Graduates of this program will be able to:

- Articulate theories, processes, and principles of second language acquisition and second language literacy.
- Examine the linguistic, sociocultural, cognitive, and psychological foundations of language and literacy.
- Identify instructional strategies and materials that promote the acquisition of language and literacy for multilingual learners.
- Evaluate informal and formal assessments for multilingual learners.
- Engage in reflective analysis of personal beliefs and systematic inquiry into diverse cultures in order to construct a pedagogy in which diversity is an explicit part of the curriculum.
- Integrate technology to enhance the learning opportunities of multilingual learners.
- Conduct research in second language learning and teaching.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/teaching-english-to-speakers-of-other-languages/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in TESOL must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) from the baccalaureate degree-granting institution
4. Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours
5. One recommendation form
6. Writing sample (i.e. 1-2 page letter of intent describing reasons for choosing to pursue a M.Ed. in TESOL, etc.)

Code	Title	Hours
Master of Education in TESOL		
Required Courses		
BESL 5302	Social and Cultural Language Influences On Learning	3
BESL 5304	Second Language Acquisition and Development	3
BESL 5311	Applied Linguistics in ESL/EFL Settings	3
BESL 5313	English as a Second/Foreign Language (ESL/EFL) Methodology	3
BESL 5317	Second Language Assessment	3
BESL 6315	Action Research in Second Language Learning	3
Prescribed Elective Courses		
Select two or more from the following:		12
BESL 5312	Second Language Literacy	
BESL 5316	Computer Assisted Language Learning in English as a Second Language/English as a Foreign Language	
BESL 5318	Sheltered Instruction in Prekindergarten-12	
BESL 6311	English for Specific Purposes	
BESL 6325	Teaching Second Language Writing	
BESL 6335	English as a Second/Foreign Language (ESL/EFL) Practicum	
BESL 6336	Teaching ESL and STEM to English Learners	
Select the remainder from the following:		
ECHE 5343	Curriculum Development-Early Childhood Education	
ECHE 5349	Language and Literacy Development in the Young Child	
ECHE 5355	Current Practices in Early Childhood Settings	
ECHE 5363	Building Relationships with Diverse Families and Children	
ECHE 5373	Theoretical Perspectives in Early Childhood Education	
ECHE 5375	Development Of The Young Child	
READ 5306	Survey Of Reading	
READ 5311	Literacy and Learning in Grades 8-12	
READ 5315	Language Arts: Theory and Instruction	
READ 5325	Improvement of Literacy in Secondary Schools & Adult Pops	
READ 5330	Literature and Instructional Materials in Reading Programs	
READ 5335	Cognition & Emergent Literacy	
Total Hours		**30**

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The MEd in TESOL is designed to provide graduates with the following marketable skills:

- Cross-cultural communication skills.
- Intercultural competence skills.
- Critical awareness and thinking skills.
- Reflective practitioners.

Graduate Certificate in Adult Education

The Adult Education certificate provides educators with strategies and techniques necessary to effectively educate adults. Individuals holding either a bachelors or masters degree wishing to refine skills in providing professional development and adult education training in schools, businesses, non-profit organizations, and/or institutions of higher learning are ideal candidates for this certificate.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/adult-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Adult Education certificate program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the degree-granting institution
4. Minimum undergraduate or graduate GPA of 3.0, either overall or in the last 60 credit hours
5. Request for Adult Education Certificate (https://acrobat.adobe.com/link/review/?uri=urn%3Aaaid%3Ascds%3AUS%3A778dff05-65f0-3893-8136-4a0b90088ced)

Code	Title	Hours
Graduate Certificate in Adult Education		
Specified Courses		
CIED 5382	Instructional Coaching	3
CIED 5383	Integrating Current Technologies in Education	3
CIED 5394	Curricula for Adult Learning	3
CIED 5397	Human Growth & Learning	3
Total Hours		**12**

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The Graduate Certificate in Adult Education is designed to provide graduates with the following marketable skills:

- Instructional skills
- Assessment
- Curriculum development
- Adult learning theory

Graduate Certificate in Bilingual (Spanish) Educational Diagnostician

The Bilingual Educational Diagnostician Certificate Program prepares educational diagnosticians who have Spanish and English language proficiency to evaluate emergent bilingual (EB) and monolingual students. Candidates determine language dominance and proficiency, conduct assessments, interpret results, and make educational recommendations for learners in school settings. This certificate is available for candidates who are enrolled in a Bilingual Educational Diagnostician Cohort or candidates who already hold a state-issued Educational Diagnostician certification.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA). To access financial aid, students must be enrolled in 6 credit hours during the Fall and/or Spring semesters and 3 hours during the Summer semesters.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/bilingual-educational-diagnostician/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in the Bilingual Educational Diagnostician Program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-admissions/application-fee.html)
3. Official transcripts from all colleges and universities attended
4. Minimum undergraduate and graduate GPA of 3.0, either overall or in the last 60 credit hours
5. Two Recommendation Forms
6. Writing Sample (https://www.shsu.edu/academics/school-of-teaching-and-learning/documents/Writing_Sample_Instructions.pdf)
7. Copy of applicant's Teaching Certification (including Bilingual Education-Spanish)
8. Copy of applicant's Educational Diagnostician Certification (for applicants seeking only the Bilingual Diagnostician Certificate)

Code	Title	Hours
Graduate Certificate in Bilingual (Spanish) Educational Diagnostician		
Specified Courses		
BESL 5314	Second Language Acquisition for Bilingual Diagnosticians	3

SPED 6319	Bilingual Cognitive Assessment	3
SPED 6322	Bilingual Special Education Assessment	3
Total Hours		**9**

Note: This SHSU bilingual certificate is issued in conjunction with the state-issued Educational Diagnostician certification and must meet all state requirements.

The certificate includes two (2) assessment courses requiring participation in four Saturdays of face-to-face hybrid lectures throughout the semester and weekly synchronous online meetings, and one (1) asynchronous online course.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Bilingual (Spanish) Educational Diagnostician is designed to provide graduates with the following marketable skills:

- Interpreting evaluation results to parents and stakeholders
- Bilingual assessment practices
- Diagnostic skills
- Reporting and data analysis

Graduate Certificate in Digital Literacies

Given the implications of current policy and technology in education, this certificate will provide coursework that allows participants to examine the role of digital literacy in education through the evaluation of digital literacies, their politics, problems, and possibilities, and will enable a deeper understanding of ways to incorporate digital literacies into curricula. Educators will gain a richer conceptualization of digital literacies and their place in twenty-first century education, in addition to understanding ways to apply appropriate programs and applications to their current teaching practices.

This Graduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/digital-literacies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit

Applicants seeking admission to the graduate certificate program in Digital Literacies must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution

Code	Title	Hours
Graduate Certificate in Digital Literacies		
Specified Courses		
LITC 7385	Digital Epistemologies [1]	3
or DLIT 5319	Digital Literacies	
Select three of the following:		9
DLIT 5305	Gaming and Literacy	
DLIT 5313	Digital Literacy and Pedagogy	
DLIT 5314	Digital Literacies & Policy	
LITC 7360	Virtual Ethnography	
Total Hours		**12**

[1] LITC 7385 (Doctoral Students) / DLIT 5319 (Master's Students)

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The Graduate Certificate in Digital Literacies is designed to provide graduates with the following marketable skills:

- Stay current with existing technology
- Develop communication skills in an online environment
- Learn skills to independently research and problem-solve

Graduate Certificate in Dyslexia

The fully online Graduate Certificate in Dyslexia provides students with the strategies and techniques necessary to effectively assess and plan instruction for students with dyslexia. This certificate will benefit individuals who wish to incorporate instructional strategies in the classroom or as a dyslexia interventionists. This dyslexia certificate coursework covers the necessary components that the State of Texas outlines in The Dyslexia Handbook (2024). SHSU students who complete the course work for this certificate will gain competence in assessment and differential screening, instruction in the components of phonological and graphophonemic knowledge, and instruction that is multisensory, explicit, sequential, and cumulative. This certificate is not a licensing or national certification program but rather focuses on the classroom practitioner and/or interventionist. Fifty (50) field experience/practicum hours are embedded in the coursework.

The coursework for this certificate can apply toward the Master of Education in Reading/Language Arts degree concurrently and/or post-completion. Information on that program can be found at MEd in Literacy Instruction (p. 1592).

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/dyslexia/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate Dyslexia certificate program in Education must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcripts from Bachelor's and Master's degrees
   a. Minimum GPA of a 3.0, either overall or in the last 60 credit hours
   b. If you are interested in the program but have less than a 3.0 GPA, contact the program coordinator.
4. Acceptable Professional Goals writing sample. This writing sample should be no more than two pages double-spaced and 12 pt font with proper essay format. The writing sample will be scored on the ability of the applicant to demonstrate awareness of context, audience, and purpose. Additionally, the writing sample should demonstrate the ability to use appropriate and relevant content, to provide at least one credible source to support a point of view(s), and to use written language to convey meaning with clarity.
   a. What have your professional literacy experiences been thus far which have led you to pursue the Dyslexia graduate certificate?
   b. Select one belief about teaching literacy that you feel passionate about and explain why, as well as how, you came to this belief.
   c. Upon completion of the program, what are your goals for your earned Dyslexia Certificate?

University Application Deadlines
Fall: August 1st
Spring: December 15th
Summer: May 15th

Code	Title	Hours
Graduate Certificate Dyslexia		
Specified Courses		
READ 5304	Multisensory Language Learning [1]	3
READ 5306	Survey Of Reading	3
READ 5307	Literacy Assessment & Instructional Strategies Practicum I (with elementary populations) [2]	3
READ 5335	Cognition & Emergent Literacy	3
READ 6088	Special Topics in Reading (Diagnosis and Correction of Literacy Learning Difficulties) [1]	3
Total Hours		**15**

1 Includes 10 hours of field experience.
2 Includes 30-40 hours of field experience.

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The Graduate Certificate in Dyslexia is designed to provide graduates with the following marketable skills:

- Learn appropriate learning activities and assessments for students
- Diagnostic skills for assessing students
- Learn structured literacy planning and teaching

Graduate Certificate in Early Childhood Education

The Early Childhood Education Certificate offers additional coursework in Early Childhood Education to public and private school teachers, administrators, and support professionals who hold a baccalaureate degree and who are seeking additional knowledge and training in the field of Early Childhood Education. This Certificate can be used as an area of emphasis in many M.Ed programs within the College of Education.

This Graduate Certificate is not eligible to receive Title IV funding – Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Note: The graduate certificate in Early Childhood Education DOES NOT lead to teacher certification.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/early-childhood-education/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Early Childhood Education must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. A list of 3 professional references with contact information.
5. Writing sample

For recommendation forms and writing sample instructions, please contact the School of Teaching and Learning (stlgraduate@shsu.edu) or visit the Graduate Certificate in Early Childhood Education program landing page. (http://www.shsu.edu/programs/graduate-certificate-in-early-childhood-education/)

Code	Title	Hours
Graduate Certificate in Early Childhood Education		
Specified Courses		
Select 4 courses from the following:		12
ECHE 5343	Curriculum Development-Early Childhood Education	
ECHE 5349	Language and Literacy Development in the Young Child	
ECHE 5355	Current Practices in Early Childhood Settings	
ECHE 5363	Building Relationships with Diverse Families and Children	
ECHE 5373	Theoretical Perspectives in Early Childhood Education	
ECHE 5375	Development Of The Young Child	
ECHE 6088	Special Topics in Early Childhood Education (Can only be taken once)	
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Early Childhood Education is designed to provide graduates with the following marketable skills:

- Learn about child development and best practices
- Teaching methods for young children and families
- Learn how to assess young children
- Community and family relations skills

Graduate Certificate in Second Language Instruction

The Second Language Instruction certificate is designed for national and international in-service teachers who work with students learning English as a second or foreign language in elementary, secondary, university, or adult education programs. Courses include training in theoretical and applied linguistics, second language teaching methodology, and the cultural aspects of language learning, teaching, and assessment.

This certificate has been approved by the Higher Education Coordinating Board and is awarded by Sam Houston State University.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/second-language-instruction/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate in Second Language Instruction must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree-granting institution
4. Minimum undergraduate or graduate GPA of a 3.0, either overall or in the last 60 credit hours

Code	Title	Hours
Graduate Certificate in Second Language Instruction		
Specified Courses		
BESL 5302	Social and Cultural Language Influences On Learning	3
BESL 5304	Second Language Acquisition and Development	3
BESL 5311	Applied Linguistics in ESL/EFL Settings	3
BESL 5313	English as a Second/Foreign Language (ESL/EFL) Methodology	3
Total Hours		**12**

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The Graduate Certificate in Second Language Instruction is designed to provide graduates with the following marketable skills:

- Culturally responsive teaching skills
- Best practice instructional skills
- Lesson design and planning
- Curriculum development
- Working with cultural and linguistically diverse families

Graduate Certificate in Special Education Transition Services

The Graduate Certificate in Special Education Transition Services provides training and preparation for professional positions that support individuals with disabilities with the transition to postsecondary education, employment, independent living, and community participation. Professionals holding a bachelor's degree or master's degree looking to improve their skills in preparing individuals with disabilities for the transition to adult life are ideal candidates for this certificate. The program courses are aligned with the Council for Exceptional Children's Advanced Special Education Transition Specialist standards and comprise 12 credit hours.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/special-education-transition-services/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Graduate Certificate in Special Education Transition Services must submit the following directly to the Office of Graduate Admission:

- Graduate Application (https://www.shsu.edu/admissions/apply-texas.html)
- Application Fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)

- Official transcript from all degrees earned
- Minimum undergraduate GPA of a 3.0, either overall or in the last 60 credit hours
- Two recommendation forms
- Curriculum vitae or resume

The Graduate Certificate in Special Education Transition Services is comprised of four special education courses to facilitate transition from secondary education to adult settings. This program affords access to the necessary online learning resources, including access to materials and support from the SHSU Newton Gresham Library (https://library.shsu.edu/) as well as technology support from IT@Sam (https://www.shsu.edu/dept/it@sam/).

The specialization courses for the Graduate Certificate in Special Education Transition Services is offered online and includes the following required courses:

Code	Title	Hours
Graduate Certificate in Special Education Transition Services		
Required Courses		
SPED 5306	Transition Services for Individuals with Disabilities	3
SPED 5307	Transition Assessment and Instruction	3
SPED 5308	Career Development & Employment for Youth with Disabilities	3
SPED 5309	Leadership in Transition Services	3
Total Hours		**12**

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The Graduate Certificate in Special Education Transition Services is designed to provide graduates with the following marketable skills:

- Utilize transition assessments on an ongoing basis to develop transition plans.
- Align instructional activities and related activities with postsecondary goals and objectives.
- Use evidence-based practices and research to develop transition programs and services.
- Develop and maintain professional transition-related ethics for working with community and related agency personnel.

Educational Diagnostician Certification

The Educational Diagnostician Certification program is designed for individuals seeking to improve their professional skills in special education. It also builds knowledge and extends their assessment skills. The coursework provides candidates with the academic foundations and practical applications for certification as an Educational Diagnostician. The certification program has a total of five (5) courses. The description of the five (5) courses is as follows: one (1) online lecture-asynchronous course, two (2) practicum courses with online synchronous live lectures, and two (2) assessment courses that require four Saturdays of face-to-face hybrid lecture participation throughout the semester, along with weekly hybrid synchronous online lectures.

To be eligible to receive the standard Educational Diagnostician Certificate, a candidate must:

- Successfully complete an educational diagnostician preparation program that meets the requirements of TAC §239.82 (complete all the requirements on the SHSU Course Plan) and TAC §239.83.
- Successfully complete the examination based on the standards identified in TAC §239.83.
- Hold, at a minimum, a master's degree from an accredited institution of higher education that, at the time, was accredited or otherwise approved by an accrediting organization recognized by the Texas Higher Education Coordinating Board.
- Hold a valid classroom teaching certificate.
- Have three creditable years of teaching experience as a classroom teacher (1 year of service may be earned while enrolled in the program)

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/educational-diagnostician/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission for the Educational Diagnostician Certification must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. (http://www.shsu.edu/admissions/apply-texas.html)Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (https://secure.touchnet.com/C21329_ustores/web/product_detail.jsp?PRODUCTID=1601) (paid to the TEA as required by TAC 229.9.7)

4. Official transcripts for Bachelor's and Master's degrees
5. Minimum GPA of a 3.0, either overall or in the last 60 credit hours
6. Two Recommendation Forms
7. Copy of applicant's Teaching Certificate
8. Teacher Service Record with at least 2 years of creditable service as a teacher of record
9. Interview video

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/educational-diagnostician/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Educational Diagnostician Certification		
Specified Courses		
SPED 5301	Education of Individuals with Disabilities	3
SPED 5302	Assessment in Special Education	3
or SPED 6322	Bilingual Special Education Assessment	
SPED 5305	Individual Assessment of Cognitive Functioning	3
or SPED 6319	Bilingual Cognitive Assessment	
SPED 6308	Practicum 1	3
SPED 6312	Practicum 2	3
Total Hours		**15**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Educational Diagnostician Certificate is designed to provide graduates with the following marketable skills:

- Interpreting evaluation results to parents and stakeholders
- Assessment practices
- Diagnoses skills and learning ability
- Reporting and data analysis

Reading Specialist Certification (Post Graduate)

This ILA Nationally Recognized with Distinction program is a stand-alone 24 credit hour fully online certification. This program is for applicants who currently hold a Masters or higher graduate degree. The Certification is designed for teacher practitioners who are interested in obtaining a Texas Reading Specialist Certification to strengthen their understanding of literacy for application in their classroom or other school settings. This program develops reflective practitioners with the knowledge and skills for effective reading/language arts instruction for Early Childhood through Secondary learners. Candidates will develop expertise as literacy specialists utilizing resources and methods, literacy assessments, and designing interventions to address varied learning needs of all students. Candidates will have the ability to become proactive instructional leaders and literacy advocates of students at all levels of literacy development. One hundred sixty (160) Practicum/Field experience hours with a diverse learner population are embedded in both programs.

Graduates of this program have the potential to enhance their literacy classroom practices and/or pursue roles such as literacy coach/specialists, literacy interventionists, and adjunct instructors of undergraduate-level literacy courses.

Candidates for the Texas Reading Specialist Certification must have a valid elementary or secondary Texas teaching certification, along with two years of successful teaching experience before taking the Reading Specialist exam (Two years can be concurrent with the program). One hundred and sixty hours of practicum/field experience with diverse learner populations are embedded in the program. Field experience hours must be completed at a Texas Education Agency (TEA) approved location.

Students must successfully complete coursework within the M.Ed. in Literacy Instruction program and 160 hours of documented field experience to be recommended to take the exam. Field hours are embedded in the course work. Candidates are required to secure their own TEA-approved location for practicum experiences.

TEA requires a graduate degree to be recommended for the Texas Reading Specialists certification; therefore, this stand-alone certification is only offered for those holding a graduate degree. All others should seek the M.Ed. in Literacy Instruction (p. 1592) program.

If an applicant does not hold a graduate degree, lives out-of-state, teaches at a private school, or is not able to complete the field experience hours in a TEA location, the M.Ed. in Reading/Language Arts is nationally accredited by the International Literacy Association to develop all-level Reading

Specialist dispositions. This route will strengthen their understanding of literacy for application in their classroom or other school settings. Such an applicant would seek the M.Ed. in Literacy Instruction (p. 1592)route.

Currently not eligible for financial aid assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/reading-specialist/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

University Application Deadlines:
Fall: August 1st
Spring: December 15th
Summer: May 15th

1. Proof of holding a graduate degree
2. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
3. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
4. Pay the $35 Texas Education Accountability System for Educator Preparation Programs Fee (http://tinyurl.com/SHSU-EPP-Tech-Fee/) (paid to the TEA as required by TAC 229.9.7 (http://texreg.sos.state.tx.us/public/readtac$ext.TacPage/?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=7&ch=229&rl=9%E2%88%9A)) if seeking Texas Reading Specialist certification
5. Official transcripts from Bachelor's and Master's degrees
   a. Minimum GPA of a 3.0, either overall or in the last 60 credit hours, for both Bachelor's and Master's degrees. If you are interested in the program but have less than a 3.0 GPA, contact the program coordinator.
6. A copy of applicant's Texas teaching certificate
7. A teacher service record with at least one year of creditable teaching experience
8. Acceptable Professional Goals writing sample. This writing sample should be no more than two pages double-spaced and 12 pt font with proper essay format. The writing sample will be scored on the ability of the applicant to demonstrate awareness of context, audience, and purpose. Additionally, the writing sample should demonstrate the ability to use appropriate and relevant content, provide at least one credible source to support a point of view(s), and the ability to use written language to convey meaning with clarity.
   a. What have your experiences with reading/language arts been thus far which has led you to pursue a graduate degree?
   b. Select one belief about teaching literacy that you feel passionate about and explain why as well as how you came to this belief?
   c. Upon completion of the program, what are your goals for your earned Master of Education in Reading/Language Arts degree (If you are seeking Texas Reading Specialist Certification, include those goals as well.)?
9. Video Interview. Video link uploaded with the application. The oral communication sample will be scored on the ability of the applicant to use an organizational pattern to communicate points; use appropriate language; be aware of the intended audience; use a variety of delivery techniques to make the presentation tentative; use supporting materials such as showing examples, visuals, explanations, and/or other appropriate sources to establish support on the topic; and clearly has a central message to convey. Record a 3-4 minute video of yourself that answers the following questions.
   a. How many years have you been a classroom teacher?
   b. What experiences do you have teaching reading and/or language arts and what led you to pursue graduate studies specializing in literacy?
   c. What does it mean to be understanding, respectful, and inclusive of diverse populations?
   d. Explain and offer an example of how you would use technology to create authentic [literacy] learning.
   e. What are your expectations of this master's program, why should you be admitted into the program, and what do you intend to do once you have earned this degree?

For information regarding the recommendations, interview, and writing sample, please contact the COE Grad Hub at (936) 294-4857.

Applicants with completed files are reviewed for regular admission by graduate faculty in each program area and are selected by faculty based on information in the completed file.

The stand alone Reading Specialist Certification (Post Graduate) requires the completion of 24 credit hours. It is designed for those holding a graduate degree and a valid Elementary or Secondary teaching certificate. The candidate must have two years successful teaching experience. The stand alone certification program originates in the Reading/Language Arts Master of Education in the School of Teaching and Learning.

The stand alone Reading Specialist Certification (Post Graduate) Requirements:

1. Graduate degree or higher (if not then refer to MED in Reading/Language Arts)
2. 24 Semester Credit Hours
3. 160 hours of field experience (embedded into the program) in a Texas Education Agency (TEA) approved location

4. Valid Texas Teaching certificate and official educator service record (submitted with application)
5. At least 2 years teaching experience at completion of program

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certification/reading-specialist/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Reading Specialist Certification		
Specified Courses		
BESL 5312	Second Language Literacy [1]	3
READ 5304	Multisensory Language Learning [1]	3
READ 5306	Survey Of Reading	3
READ 5307	Literacy Assessment & Instructional Strategies Practicum I (with Elementary Populations) [2, 4]	3
READ 5335	Cognition & Emergent Literacy	3
READ 5340	Practicum of Literacy Asmt & Instrumental Strat II-Secd Pops [2, 4]	3
READ 6310	Administration and Supervision of Literacy Programs [1]	3
READ 6320	Research and Literacy Leadership [5]	3
Total Hours		**24**

1 Includes 10-15 hours of field experience.
2 Prerequisites: READ 5306.
4 Includes 30-40 hours of field experience with secondary populations.
5 Includes 30-35 field experience hours.

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The Reading Specialist Certification (Post Graduate) Certificate is designed to provide graduates with the following marketable skills:

- Research and theoretical knowledge of literacy
- Learn evidence-based practices in curriculum, instruction, assessment, and leadership
- Learn the need for a broader definition of literacy beyond reading to include writing, speaking, listening, and viewing

Teacher Certification

Additional information: Reference the Program Landing Page (https://www.shsu.edu/academics/education/altcert/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Teacher Certification		
Required Courses		
CIED 5301		3
CIED 5302		3
Prescribed Electives		
CIED 5398	Practicum in Classroom Instruction I	3
CIED 5399	Practicum in Classroom Instruction II	3
Total Hours		**12**

Applicants seeking admission to the Alternative Teacher Certification program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

- Graduate Application through Apply Texas
- Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
- Application to the Educator Preparation Program
- Pass a pre-admission diagnostic exam from 240 Tutoring or pass the TX PACT in the certification area you want to teach. Email ACP@shsu.edu for guidance on which exam to take.
- Writing Sample
- Official transcript (indicating an undergraduate degree) from an accredited academic institution.
- Candidates must have a minimum 3.0 GPA for the baccalaureate degree or the last 60 hours of coursework

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

Teacher Certification is designed to provide graduates with the following marketable skills:

- Best practice instructional skills
- Lesson design and planning
- Assessment
- Curriculum development

College of Health Sciences

Administrative Officers

Title/Department	Officer
Dean	Ryan K. Zapalac, Ph.D. rzapalac@shsu.edu; (936) 294-2395
Associate Dean	Jennifer A. Bunn, Ph.D. jab229@shsu.edu; (936) 294-2393
Associate Dean	Ronald L. Reed, M.S. rlr054@shsu.edu; (936) 294-2392
Department of Human Sciences	Keila Tyner, Ph.D., Interim Chair keilatyner@shsu.edu; (936) 294-1241
Department of Kinesiology	Jennifer J. Didier, Ph.D., Chair jennifer.didier@shsu.edu; (936) 294-1398
Department of Public Health	Amanda Scarbrough, Ph.D., Chair aes060@shsu.edu; (936) 294-1168
School of Nursing	Devon M. Berry, Ph.D., Director devonmberry@shsu.edu; (936) 202-5116

Mission

The College of Health Sciences prepares students for meaningful professions in health and human sciences, fostering a spirit of inquiry and exploration. Our focus is on immersive, community-engaged education aimed at empowering individuals, families, and communities across East Texas. By prioritizing student-centered learning, real-world engagement, research, and healthcare outreach, we aim to contribute positively to the state of Texas and beyond.

Vision

Cultivating the next generation of leaders in health and human sciences.

Core Values

- **Student-Centric:** We prioritize the success, growth, and well-being of our students, placing their needs at the center of our educational and support efforts.
- **Belonging:** We cultivate an environment where every member of our community feels valued and respected, with a sense of belonging and well-being.
- **Discovery:** We promote an ethos of curiosity and inquiry in the classroom and beyond to advance the body of knowledge throughout health and human sciences disciplines.
- **Transformational:** We are committed to creating positive impacts through our work in education, research, and community practice.
- **Collaboration:** We foster teamwork and partnerships within our college, across the university, and with community organizations to achieve common goals.

Contact Information
Main Office: (936) 294-2301

Website
College of Health Sciences (http://www.shsu.edu/academics/health-sciences/)

Department of Human Sciences (p. 1613)

- Master of Science in Dietetics (p. 1615)

Department of Kinesiology (p. 1617)

- Master of Science in Kinesiology - (Sport and Human Performance) (p. 1620)
- Master of Science in Sport Management (p. 1624)

Department of Physician Assistant Studies and Athletic Training (p. 1630)

- Master of Science in Athletic Training (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)

Department of Public Health (p. 1637)

- Master of Health Administration (p. 1639)
- Master of Public Health (p. 1641)
- Master of Science in Health Care Quality and Safety (p. 1645)
- Graduate Certificate in Health Care Quality and Safety (p. 1647)

Dual Degree

- Doctor of Osteopathic Medicine and Master of Public Health (p. 1785)

Department of Human Sciences

About

Department Chair: Dr. Keila Tyner (keilatyner@shsu.edu), Interim Chair, Associate Professor of Practice, Fashion Merchandising Program Coordinator

Contact Information
Human Sciences (https://www.shsu.edu/academics/health-sciences/human-sciences/)
(936) 294-1250
Box 2177 SHSU
1700 Sam Houston Ave.
Huntsville, TX 77341-2177

Website: Department of Human Sciences (https://www.shsu.edu/academics/health-sciences/human-sciences/)

Mission

The mission of the Department of Human Sciences is to prepare future professionals with the knowledge and skills to positively impact individuals, families, and communities.

Programs

M.S. in Dietetics

The SHSU M.S./DI program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics; 120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, (800) 877-1600, ext. 5400. Academy of Nutrition and Dietetics website (http://www.eatrightpro.org/resources/acend/).

- Master of Science in Dietetics (p. 1615)

Scholarships

The SHSU Graduate School provides an opportunity for interested students pursuing their graduate degree to receive scholarships and funding for course work.

These opportunities are listed below and can be found through the following links:

- Financial Aid for Graduate Students (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- The General Graduate School Scholarship Application (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate A.S.P.I.R.E. (Academic Success Program in Research Empowerment) Program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate School R.O.A.D. to PhD program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Human Sciences

- Elmadel Driscoll Robinson Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Family and Consumer Sciences Memorial Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Keener Family COBA/FCS Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Lena Campbell Mathis Endowed Scholarship: $2,500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Lynch Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Mattie Bea Prather Medford Family and Consumer Sciences Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

- Rachel Mary Prather Allen Family and Consumer Sciences Endowed Scholarship: $500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Wiley G. and Marian Boyd McDonald Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Many other scholarship opportunities are available, including those based on the academic record of the incoming student. Many organizations at the national, state, and local level, including professional organizations and corporations, offer scholarships for specific majors within the department. Students should check the specific criteria required by these organizations. Brochures and information concerning the department and scholarships may be obtained by writing:

Department of Human Sciences
Box 2177
Sam Houston State University
Huntsville, Texas 77341-2177

or e-mail your request to Human Sciences (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/). Website: Department of Human Sciences (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/health-sciences/human-sciences/)

Berna El Rahi Abed el Sater, PHD (bxa051@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, University of Montreal; MS, American University of Beirut; BS, Notre Dame University

Laura Keilers Burleson, PHD (hec_lpb@shsu.edu), *Assistant Professor of Interior Design*, *Department of Human Sciences*, PHD, Texas Tech University; MS, Oklahoma State University; BS, Oklahoma State University

Linda Gail Fergus, PHD (lgf011@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, LSU & A&M College; MS, Texas Woman's University; BS, LSU & A&M College

Cherine Hatem, PHD (cxh164@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Case Western Reserve Univ; BS, John Carroll University

Ernesto Molinar Hernandez, PHD (emh060@shsu.edu), *Lecturer of Food Science & Nutrition*, *Department of Human Sciences*, PHD, Univ of Massachusetts-Amherst; MS, Oregon State University; BS, University of Guanajuato

Tabbetha Dawn Lopez, PHD (tdl030@shsu.edu), *Assistant Professor of Food Science & Nutrition and Dietetics Director*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Texas Tech University; BS, Univ of Houston-Main; BS, Univ of Houston-Main

Keila E Tyner, PHD (kxt033@shsu.edu), *Associate Professor of Practice in Fashion Merchandising*, *Department of Human Sciences*, PHD, Iowa State University; MS, Colorado State University; BS, Texas Christian University

Master of Science in Dietetics

This 17 month non-thesis degree is an accredited, advanced degree and dietetic internship program designed for students who want to complete their ACEND accredited 1000 hour supervised practice experience concurrently with related graduate coursework. The Masters of Science in Dietetics and Dietetic Internship program requires 36 graduate hours including 9 hours of internship practicum. Graduates of this program become eligible to sit for the Registration Examination for Dietitians.

To obtain an M.S. degree, students must complete an MSDI Research Project or pass a written comprehensive exam at the end of the program and be enrolled in the University during the semester or summer session in which the Capstone Requirement is administered.

The SHSU program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics; 120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, (800) 877-1600, ext. 5400. Academy of Nutrition and Dietetics website (http://www.eatrightpro.org/resources/acend/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/dietetics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Admission Requirements

All applicants must meet the following criteria to be considered for program admission:

- GPA Requirement: Overall GPA of 3.0 or GPA of 3.0 or greater within the last 60 hours of academic work.
- GRE Requirement: The GRE requirement will be WAIVED if the applicant graduated with a cumulative GPA of 3.0 or higher. However, if the applicant has a cumulative GPA less than 3.0, the GRE will be required with a minimum score of 290.
- Verification Statement or Declaration of Intent to Complete Degree from an ACEND-accredited Didactic Program in Dietetics (DPD). Students who have completed the DPD five or more years prior to the internship start date are required to update their core knowledge with at least two additional upper-level dietetics courses prior to potential admission to the program. Courses must be completed through an ACEND-accredited nutrition and dietetics program. One course must be in the subject area of Medical Nutrition Therapy. The student should contact the program director to discuss additional coursework.
- Completion of a baccalaureate degree from an accredited college or university.

Dietetic Internship Application Instructions

Please see the MSDI Website (https://www.shsu.edu/academics/health-sciences/human-sciences/graduate/msdi/) for important application dates.

Students applying for the MSDI Program are required to submit their application through DICAS (https://portal.dicas.org). The prospective student applicant is responsible for any fees associated with DICAS (https://portal.dicas.org).

Step 1: Submit your completed application through the online centralized internship application DICAS (https://portal.dicas.org)

Application through the online centralized internship application, DICAS (https://portal.dicas.org) must include:

- Personal Statement
- Three recommendation letters must be from 1) a dietetic academic professor, 2) a work or volunteer supervisor, and 3) a final reference of the applicant's choice.
- The fees to applicants for using DICAS (https://portal.dicas.org) will be $50

Step 2: The Program Director will contact you to schedule an interview

Step 3: Students accepted into the MSDI program will be required to complete a SHSU Graduate Application (https://www.shsu.edu/dept/graduate-admissions/)

Application Review

Applications of qualified candidates will be reviewed by a selection committee and scored on GPA, GRE score, personal statement, recommendation letters, work & volunteer experience, awards, scholarship, and service (in that order).

Interviews: Applicants will be required to complete a virtual interview.

Code	Title	Hours
Master of Science in Dietetics		
Specified Courses		
DIET 5079	Dietetic Internship Practicum [1]	9
DIET 5367	Consumer & Food Technology	3

DIET 5383	Research Problems	3
DIET 5385	Sports Nutrition	3
DIET 5395	Dietary Supplements	3
DIET 5396	Cultural Food Counseling	3
DIET 5398	Public Health Nutrition	3
HUSC 5330	Seminar in Human Science Research	3
HUSC 5375	Seminar in Recent Developments in Human Science	3
SOCI 5314	Social Statistics	3
Total Hours		**36**

[1] DIET 5079 is taken three times for a total of nine hours.

Note: All courses require Graduate Standing and admittance in MS in Dietetics program.

Capstone Requirement:

Sam Houston State University requires a Capstone as an important measure of skills and knowledge required through the program. All master's degree candidates must demonstrate the skills and knowledge acquired through the program by passing a Capstone. The MSDI program allows students to select a Capstone at the start of the program. The choices include:

1. Comprehensive Exam: The exam includes three sections (Research, Clinical, and Community), and each section is allotted 2.5 hours to complete. The faculty member who taught the course will grade the examination question. Each question will be graded pass or fail. The exam results will be sent to the student within three (3) weeks of the completion of the examination. If a student fails any section, a re-examination in an oral or written format will be required.
2. Manuscript and Poster Presentation: The manuscript must be formatted for publication in a journal, and the poster must be formatted for presentation. However, they are not required to be submitted to a journal or conference for completion. Students must select a lead faculty mentor to comprise the MSDI Research Project Committee. Two faculty members are required to ensure objectivity and provide proper support to students; one must be a full-time MSDI faculty member, and the other may be external to MSDI. Faculty members external to MSDI faculty can be selected to serve with the approval of the Program Director. Faculty members should accept students based on the student's interests and areas of expertise. The MSDI Program Director must approve faculty advisors and projects. Students who receive unsatisfactory progress reports from faculty advisors will be required to meet with the MSDI Program Director.

For MSDI students to successfully complete the Capstone requirement, students must have the technology requirements listed in the MSDI Handbook. Students must successfully complete the Capstone Requirement to earn the Master of Science in Dietetics degree.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Dietetics is designed to provide graduates with the following marketable skills:

- Review literature and research for best evidence-based practices.
- Nutrition counseling and presentations.
- Implementation of research methods.
- Analysis and interpretation of data.
- Work with an interdisciplinary team towards a common goal.

Department of Kinesiology

Chair: Dr. Jennifer J. Didier (https://www.shsu.edu/academics/health-sciences/kinesiology/kinesiology-faculty-pages/jennifer-didier.html)

Contact: 936-294-1398

Website: The Department of Kinesiology (http://www.shsu.edu/academics/health-sciences/kinesiology/)

Mission

The mission of the Department of Kinesiology is to advance students' understanding of relationships among movement, exercise, and skill that occur in the contexts of development, learning, rehabilitation, athletic training, and sport management. The programs in the Department of Kinesiology seek to prepare future professionals for movement-related fields such as athletic training, teaching, coaching, training, fitness, and sport management. Learning occurs through the study of movement, exercise processes, and/or sport industry settings within a framework that emphasizes the clinical and practical implications of theory and research. The curricula provides hands-on learning and application of theory and research through experienced professors and community engagement.

Highlights

- Excellent field-based opportunities through community-engaged courses and internships.
- Wide variety of laboratory and practical experiences.
- Extensive professional networks in many different sub-fields in Kinesiology.
- Online courses are available for many of the courses.
- Quality instructors, many who have been awarded for their teaching excellence.
- Outstanding faculty and staff with extensive experience in their professional fields.

Career Opportunities

- Certified Athletic Trainer (with completed MSAT degree and successful completion of certification and licensure)
- Higher Education Faculty (with completion of MS degree in a related field)
- Performance Sports Specialist
- Sport Scientist
- Biomechanist
- Corporate fitness specialist
- Commercial fitness specialist
- Hospital-based wellness coordinator
- Cardiac rehabilitation specialist
- Physical therapy assistant and chiropractic assistant
- Strength and Conditioning Coach (with completed CSCS certification)
- Medical Sales and Specialty Equipment Sales and Equipment Trainer
- Recreational specialists in camps, communities, and YMCA's
- Collegiate, community, and/or professional sport industry support professionals
- Event management, marketing, and sales positions with professional sport franchises
- Event management and marketing within college athletics
- Program management, marketing, community relations, and event management with community sport organization

SHSU Graduate School Opportunities in Related Disciplines

College of Health Sciences (p. 1611)

- Master of Science in Athletic Training (MSAT) (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)
- Master of Science (MS) in Kinesiology - Sport and Human Performance (SHP) (p. 1620)
- Master of Science (MS) in Sport Management (p. 1624)
- Master of Public Health (MPH) (https://www.shsu.edu/academics/health-sciences/health/graduate/master-of-public-health/) (https://www.shsu.edu/academics/health-sciences/health/graduate/master-of-public-health/)

College of Osteopathic Medicine (p. 1713)

- Doctorate in Osteopathic Medicine (https://www.shsu.edu/academics/osteopathic-medicine/) (DO)

Additional graduate program opportunities outside of SHSU may include Masters or Doctorate in Occupational Therapy, Masters in Orthotics and Prosthetics, Doctorate in Physical Therapy, Doctorate in Osteopathic Medicine, Doctorate in Chiropractic Medicine, Doctorate in Pharmacy, Masters is Physician Assistant and many other allied health and exercise science-related areas at other institutions (currently not offered at SHSU).

Programs

- Master of Science in Kinesiology - (Sport and Human Performance) (p. 1620)
- Master of Science in Sport Management (p. 1624)

Scholarships

The SHSU Graduate School provides an opportunity for interested students pursuing their graduate degree to receive scholarships and funding for course work.

These opportunities are listed below and can be found through the following links:

- Financial Aid for Graduate Students (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- The General Graduate School Scholarship Application (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate A.S.P.I.R.E. (Academic Success Program in Research Empowerment) Program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate School R.O.A.D. to PhD program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Department of Kinesiology

- Betty Alexander Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- H O Crawford Scholarship or H.O. "Molly" Crawford Memorial Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Joe and Mary Kirk Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Margaret Powell Scholarship Award: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Robert L. Case Health & Kinesiology Wellness Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Sam Houston Athletic Training Alumni & Friends Scholarship: $1,500 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Robert J. Wagner Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

Please, visit SHSU Scholarships (https://www.shsu.edu/dept/financial-aid/scholarships/)for more information on available scholarships for Kinesiology students.

Director/Chair: **Jennifer Johnson Didier**

Harsh Harish Buddhadev, PHD (hhb005@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Iowa State University; MS, Univ of North Texas; BPHIL, Gujarat University

Jennifer Ann Bunn, PHD (jab229@shsu.edu), *Professor of Kinesiology and Associate Dean of COHS*, *Department of Kinesiology*, PHD, Baylor University; MS, Univ of Kentucky; BS, Nicholls State University

Jennifer Johnson Didier, PHD (jennifer.didier@shsu.edu), *Professor of Kinesiology; Chair of Kinesiology*, *Department of Kinesiology*, PHD, LSU & A&M College; MS, Texas A&M University; BS, Texas A&M University

Brent Cullen Estes, PHD (bce001@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Florida State University; MSS, U.S. Sports Academy; BS, Faulkner University

Natalie Reid Foley, MS (nrf026@shsu.edu), *Dir of Development; Adjunct Faculty*, *Department of Kinesiology*, MS, West Virginia University; BS, West Virginia University

Christopher D Greenleaf, PHD (cdg053@shsu.edu), *Clinical Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Rocky Mountain Univ Health Pro; MS, Middle Tennessee State Univ; BS, Charleston Southern University

Mayrena Isamar Hernandez, PHD (mih012@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Wisconsin-Madison; MPH, Kansas State University; BS, Univ of Texas-Arlington

Min Hyun Kim, PHD (mxk056@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of New Mexico; MA, California St Un-San Bernardin; BPED, Kyung Hee Univ Seoul; BPED, Kyung Hee Univ Seoul

Braden Edward Norris, PHD (benorris9@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Indiana University; MS, Indiana University; MS, Indiana University; BS, Indiana University

Caitlin O'Connell, PHD (cmo042@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Pittsburg; BS, Univ of Rochester

Erica Ann Pasquini, PHD (exp043@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Southern Mississippi; MS, Ball State University; BS, Univ of New Orleans

Jose Alberto Santiago, EDD (jas083@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas Southern University; MA, Indiana State University; BA, Univ of Puerto Rico-Rio Piedra

Micheil Brian Spillane, PHD (mbs056@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Baylor University; MSED, Baylor University; BS, Univ of Houston-Main

Matthew Charles Wagner, PHD (mcw002@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Sam Houston State University; BS, Sam Houston State University

Mary Lola Williams, EDD (mlw049@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas A&M-Corpus Christi; MA, Texas A&M-Corpus Christi; BA, Coe College; BA, Coe College; BA, Coe College

Susannah Leigh Williamson, PHD (sxw058@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Teachers College Columbia Univ; BA, Brown University; BA, Brown University

Ryan K Zapalac, PHD (rkz001@shsu.edu), *Professor of Kinesiology and Interim Dean, COHS*, *Department of Kinesiology*, PHD, Univ of Houston-Main; MED, Univ of Houston-Main; BS, Univ of Houston-Main

Master of Science in Kinesiology (Sport and Human Performance)

The graduate program in Kinesiology focuses on Sport and Human Performance. The program is **100% online** with the option of on-campus lab days, online live, hybrid, and face-to-face classes for certain courses in the program are offered to allow for some synchronous meetings with the professors and students throughout the semester.

This program also offers graduate assistantships for both research and teaching. Research assistants work in the labs listed below. Teaching assistants teach the exercise physiology lab classes and/or activity courses. Graduate assistants may also work in the labs and teach the lab class. Graduate assistants must live within Huntsville, TX, or within commuting distance to campus and work 10 – 20 hours per week.

The Department of Kinesiology is now located on the first floor of the Lee Drain Building and has 4 new research labs and 2 teaching labs. The research labs include:

1. Motor Behavior/Biomechanics Lab,
2. Human Performance Lab,
3. Muscle Physiology/Exercise Biochemistry Lab, and
4. Strength Training Lab.
5. Athletic Training Teaching and Research Lab, and
6. Exercise Science Teaching Lab

This program is designed to prepare students for success in their chosen professional careers within a variety of sport, exercise, recreation, education, and fitness settings by providing the highest quality educational experiences. This graduate degree is also appropriate for students planning to continue their training in doctoral programs at other institutions, and students are highly encouraged to complete a thesis if on this track.

Students complete a core block of four courses and have the option of completing:

1. a thesis (both on- and off-campus when applicable),
2. a 200 contact-400 hour internship embedded in a 3-SCH course which is to be completed in one semester (Graduate Internship II can also be taken if the student wants an additional 200 contact hours for an additional 3-SCH course), or
3. taking additional elective hours to complete their 30-36 hour degree. These elective hours include any internship courses completed.

We encourage all students to take the research classes in their first and second semesters in the program (KINE 5368 and KINE 5374). Students interested in completing a thesis should start discussing their ideas with the Kinesiology Graduate Coordinator and their professors as they complete the first or second semester. Students can complete their thesis at SHSU using the labs and equipment, or in some cases, complete the thesis research project from out of town through remote or external supervision. Each student interested in completing a thesis must communicate with a professor and secure a thesis chair to help them through the process. In consultation with the thesis chair, the student will also build a thesis committee with additional SHSU faculty and, if needed, an outside member.

Listed below are the typical rotation of classes offered each semester.

Typical Fall Semester Courses

Code	Title	Hours
KINE 5367	Advanced Physiology of Exercise (Core class - all students must complete) [1]	3
KINE 5368	Research in Sport and Human Performance (Core class - all students must complete) [1]	3
KINE 5372	Youth Fitness	3
KINE 5381	Clinical Exercise Physiology	3
KINE 5385	Biomechanics of Injury	3
KINE 5387	Biomechanical Gait Analysis	3
KINE 5398	Significance of Motor Learning (Core class - all students must complete) [1]	3

Typical Spring Semester Courses

Code	Title	Hours
KINE 5374	Applied Research Methods in Kinesiology (Core class - all students must complete) [1]	3
KINE 5379	Management of Adult Fitness Programs	3
KINE 5386	EKG/Cardiac Conditions	3
KINE 5393	Advanced Studies in Psychology of Sport	3
KINE 5395	Advanced Biomechanics (Core class - all students must complete) [1]	3

Typical 10-Week Summer Semester Courses

Code	Title	Hours
KINE 5388	Strength Training Principles	3
KINE 5391	Motor Control in Practice	3
KINE 5396	Aerobic and Anaerobic Training	3

Summer Mini-Mester Course (will require both on-campus days and online work)

Code	Title	Hours
KINE 5390	Exercise Science Lab Practicum	3

Internship and Independent Study Courses (offered each semester as needed)

Code	Title	Hours
KINE 5334	Sport and Human Performance Internship I	3
KINE 5335	Sport and Human Performance Internship II	3
KINE 5377	Independent Studies	3
KINE 6098	Sport and Human Performance Thesis I	1-3
KINE 6099	Sport and Human Performance Thesis II	1-3

[1] Indicates this is one of the five core courses in the program.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/kinesiology-sport-and-human-performance/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Please submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Admissions Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application Fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Minimum undergraduate GPA of 3.0
4. Official transcript from the baccalaureate degree-granting institution
5. Bachelor's degree with a major or minor in Kinesiology or a related field
6. Applicants should have experience in coursework or related certifications in the following areas: motor learning, exercise physiology, biomechanics, and research, statistics, or technical writing
7. Contact information for 2-3 potential references. This list should include the full names, emails, phone numbers, professional titles, and relationship to applicant.
8. Statement of intent/interest - This letter of intent should include the following:
    - Applicant's background
    - Undergraduate degree/classes/emphasis
    - Work experience
    - Research experience and interests
    - Purpose of applying for admittance as it relates to the Sport and Human Performance degree
    - Future plans related to the Sport and Human Performance degree

If unable to submit any of the above documents, prospective students should contact the Kinesiology Graduate Coordinator. Entrance into the program is based on GPA, list of names and contact information for potential references, coursework/certifications in core subject areas, and letter of intent. Students who do not meet the entrance requirements may be conditionally admitted for one semester, pending approval from the Kinesiology Graduate Coordinator. Students admitted to the program on a conditional basis must complete a maximum of 6 graduate hours and earn a minimum of 3.0 GPA in completed coursework.

The mission of the Sport and Human Performance specialization is to advance students' understanding of relationships among movement, exercise, and skill that occur in the contexts of development, learning, rehabilitation, and training. The Masters of Science in Kinesiology - Sport and Human Performance (SHP) track is focused on helping students apply exercise science concepts in clinical, commercial, and athletic settings. The SHP program uses foundational classes in biomechanics, exercise physiology, motor learning, and research to support the application of exercise principles to a wide variety of populations in various clinical and applied settings.

Students must maintain a 3.0 GPA to remain in good academic standing per the Graduate School Academic Policy Statement 910312 (p. 1401)**.**

Per Academic Policy Statement 910312 (p. 1401), a 3.0 overall grade point average is the absolute minimum required for graduation. A graduate student who falls below a 3.0 overall grade point average at the close of any semester during which one or more semester credit hours are attempted will be placed on probation. If an enrolled student on probation fails to achieve a minimum 3.0 overall grade point average at the close of the next semester following the starting of the probation, the student will be academically terminated. Any appeal for a review of the termination of graduate status should be directed in writing through the graduate advisor of the program, then to the chair of the department/school, then to the academic dean of the college, and finally to the Provost and Vice President for Academic Affairs. Refer to Academic Policy Statement 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf) for further information.

Plan 1 - MS in Kinesiology - Sport and Human Performance (Non-thesis)

Code	Title	Hours
Master of Science in Kinesiology Sport and Human Performance (Non-thesis option)		
Specified Courses		
KINE 5367	Advanced Physiology of Exercise [1]	3
KINE 5368	Research in Sport and Human Performance [1]	3
KINE 5374	Applied Research Methods in Kinesiology [1]	3
KINE 5395	Advanced Biomechanics [1]	3
KINE 5398	Significance of Motor Learning [1]	3
Electives (24 credit hours) [2]		**24**
Electives to meet 36 hours to be chosen from this list or as approved by the Kinesiology Graduate Coordinator.		
KINE 5097	Special Topics in Kinesiology [3]	
KINE 5334	Sport and Human Performance Internship I [4]	
KINE 5335	Sport and Human Performance Internship II [4]	
KINE 5372	Youth Fitness	
KINE 5375	Statistical Design in Kinesiology	
KINE 5377	Independent Studies	
KINE 5379	Management of Adult Fitness Programs	
KINE 5381	Clinical Exercise Physiology	
KINE 5385	Biomechanics of Injury	
KINE 5386	EKG/Cardiac Conditions	
KINE 5387	Biomechanical Gait Analysis	
KINE 5388	Strength Training Principles	
KINE 5390	Exercise Science Lab Practicum	
KINE 5391	Motor Control in Practice	
KINE 5393	Advanced Studies in Psychology of Sport	
KINE 5396	Aerobic and Anaerobic Training	
KINE 5399	Workshop in Kinesiology [4]	
Students may choose to take up to 6 credit hours outside of the department. These outside electives must be approved by the Kinesiology Graduate Coordinator.		
Total Hours		**39**

1. Indicates this is a core course.
2. Must be approved by the Kinesiology Graduate Coordinator.
3. Course can be repeated for credit.
4. Includes 200 contact hours per course (KINE 5334 and KINE 5335) to fulfill the requirements of an internship. These courses may be taken concurrently if a student is interested in pursuing 400 contact hours in one semester. Please, discuss options with the Kinesiology Graduate Coordinator.

Notes

Students must have Graduate Standing for all courses in the program.

At the conclusion of the program, non-thesis students are required to pass a comprehensive examination covering content from select courses. The comprehensive examination can be taken when the student is within his/her final 6-hours of coursework and must be completed at least three weeks prior to the graduation date. Students must be enrolled during the semester in which the comprehensive examinations are taken. The comprehensive examination will include questions from KINE 5368 and KINE 5374 for all students, students then select from 2 of the 3 remaining core classes (KINE 5398, KINE 5395, and KINE 5367) for the 2nd and 3rd question areas. The 4th question area will come from any approved class (communicate with the program coordinator) completed prior to the final semester. Students who fail one or more subject areas of the comprehensive exam must enroll in an additional semester (minimum of 1 credit hour) and retake the comprehensive exam during the additional semester.

Plan 2 - MS in Kinesiology - Sport and Human Performance (Thesis Option)

Code	Title	Hours
Master of Science in Kinesiology Sport and Human Performance (Thesis option)		
Specified Courses		
KINE 5367	Advanced Physiology of Exercise	3
KINE 5368	Research in Sport and Human Performance	3
KINE 5374	Applied Research Methods in Kinesiology	3
KINE 5395	Advanced Biomechanics	3
KINE 5398	Significance of Motor Learning	3
Thesis		
KINE 6098	Sport and Human Performance Thesis I [1]	3
KINE 6099	Sport and Human Performance Thesis II [1]	3
Electives (12 hours)		**12**
KINE 5097	Special Topics in Kinesiology [2]	
KINE 5372	Youth Fitness	
KINE 5375	Statistical Design in Kinesiology	
KINE 5377	Independent Studies [3]	
KINE 5379	Management of Adult Fitness Programs	
KINE 5381	Clinical Exercise Physiology	
KINE 5385	Biomechanics of Injury	
KINE 5386	EKG/Cardiac Conditions	
KINE 5387	Biomechanical Gait Analysis	
KINE 5388	Strength Training Principles	
KINE 5390	Exercise Science Lab Practicum	
KINE 5391	Motor Control in Practice	
KINE 5393	Advanced Studies in Psychology of Sport	
KINE 5396	Aerobic and Anaerobic Training	
KINE 5399	Workshop in Kinesiology	
Total Hours		**33**

1 Once enrolled in KINE 6098 and/or KINE 6099, students must continuously enroll (p. 1398) in this course until graduation. Please visit with Kinesiology Graduate Coordinator for more details regarding continuous enrollment requirements (p. 1398).

2 Students completing the thesis option are highly encouraged to take KINE 5377 the semester prior to starting thesis work to establish the research project, write the literature review and methods and start completing the IRB documents.

3 Course can be repeated for credit.

Notes

For a 30-hour program, a maximum of 6 hours of coursework can be transferred from another institution, or applied to the graduate program from an area of study outside of Kinesiology. Transferred coursework must be approved by the Kinesiology Graduate Coordinator. For any of the graduate degree options, only one independent study (KINE 5377) may be applied to the coursework. Consult the graduate catalog for course descriptions. All coursework falling under one of these considerations must have the approval of the graduate coordinator for the program. Application of workshops (KINE 5399) is limited to 6 hours.

Those selecting the thesis option are required ~~to~~ successfully complete an oral defense of their research study~~.~~ A successful thesis defense and approval for publication fulfill the comprehensive exam requirement for thesis students. Students must also maintain continuous enrollment in thesis

courses until the thesis has been successfully completed. Please consult the Graduate Catalog for more details. Those selecting the non-thesis option must successfully pass all portions of the Comprehensive Exams for graduation. If a student does not pass the Comprehensive Exams, then they must maintain continuous enrollment until they pass.

Students should consult the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html) for the established timeline for thesis defense and submission.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Kinesiology is designed to provide graduates with the following marketable skills:

- Advanced fitness program design.
- Advanced content knowledge in research and areas of study including exercise physiology, biomechanics, and motor learning.
- Ability to understand and formulate theories and implement those into fitness and wellness practices.
- A solid research base of knowledge in sport and human performance related topics.
- Ability to implement critical areas of human performance into fitness and wellness occupations.
- Advanced ability to apply knowledge to sport and human performance settings.

Master of Science in Sport Management

The mission of the graduate Sport Management degree program is to effectively prepare students for a variety of executive positions within athletic and sport organizations at the community, educational, and/or professional levels. Students will be provided quality instruction, the latest technology, opportunities for research and professional development, field-based experiences, and excellent internship opportunities. In return, students are required to become acquainted with relevant issues in the field, understand the research process, and represent the program's goals and objectives in the industry. Individuals completing the program will be ready to assume leadership positions in the sport management and/or academic domains. The curriculum is currently offered 50% face-to-face at SHSU-The Woodlands Center (TWC) and 33% Online, and 17% in an approved internship. The program progression is typically 9 Semester Credit Hours (SCH) in each of the first Fall and first Spring semesters, the summer term is 12 SCH 100% online, and the second Fall semester the student completes 6 SCH (400 contact hours) at an approved internship site.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/sport-management/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Please submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Admissions Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application Fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Minimum undergraduate GPA of 3.0
4. Official transcript from the baccalaureate degree-granting institution
5. Contact information for 2-3 references. This list should include the full names, emails, phone numbers, professional titles, and relationship to applicant.
6. A letter of intent outlining educational/career goals and how the sport management program at SHSU could help the applicant meet those goals

Students who do not meet the entrance requirements may be conditionally admitted for one semester, pending approval from the Sport Management Graduate Coordinator. Students admitted to the program on a conditional basis are allowed to complete a maximum of 6 graduate hours in their first semester. After this first semester of completed coursework, conditionally admitted students will then be reviewed for regular admission.

The Master of Science in Sport Management degree program offers two options: thesis and non-thesis. Students choosing the thesis option are required to complete 36 credit hours comprised of 30 hours of coursework and 6 hours of thesis. Students choosing the non-thesis option are required to complete 36 credit hours comprised of 30 hours of coursework and 6 hours of Graduate Internship (SPMT 5334 and SPMT 5335).

Per Academic Policy Statement 910312 (p. 1401), a 3.0 overall grade point average is the absolute minimum required for graduation. A graduate student who falls below a 3.0 overall grade point average at the close of any semester during which one or more semester credit hours are attempted will be placed on probation. If an enrolled student on probation fails to achieve a minimum 3.0 overall grade point average at the close of the next semester following the starting of the probation, the student will be academically terminated.

Code	Title	Hours
Master of Science in Sport Management (Thesis option)		
Specified Courses		
SPMT 5362	Legal Issues in Sports	3
SPMT 5363	Leadership in Sport Management	3
SPMT 5370	Sport Marketing: Theory and Practice	3
SPMT 5371	Sport Finance and Sales	3
SPMT 5373	Event & Facility Management	3
SPMT 5374	Applied Research Methods in Sport Management	3
SPMT 5382	Community and Media Relations in Sport	3
SPMT 5383	Sport Consumer Behavior	3
SPMT 5384	Revenue Generation in Sport	3
SPMT 5387	Sport Analytics	3
Thesis		
SPMT 6098	Sport Management Thesis I [1]	3
SPMT 6099	Sport Management Thesis II [1]	3
Total Hours		**36**

[1] Once enrolled in SPMT 6098 and/or SPMT 6099 , students must continuously enroll (p. 1398) in this course until graduation. Please, visit with Sport Management Graduate Coordinator for more details regarding continuous enrollment requirements (p. 1398).

Note: Per Academic Policy Statement 910312, a 3.0 overall grade point average is the absolute minimum required for graduation. A graduate student who falls below a 3.0 overall grade point average at the close of any semester during which one or more semester credit hours are attempted will be placed on probation. If an enrolled student on probation fails to achieve a minimum 3.0 overall grade point average at the close of the next semester following the starting of the probation, the student will be academically terminated.

Those selecting the thesis option are required to successfully complete an oral defense of their research study. A successful thesis defense and approval for publication fulfill the comprehensive exams requirement for thesis students. (p. 1398) Students must also maintain continuous enrollment (p. 1398) in thesis courses until the thesis has been successfully completed. Please consult the Graduate Catalog (p. 1398) for more details.

Students should consult the Academic Calendar (https://www.shsu.edu/dept/registrar/calendars/academic-calendar.html) for the established timeline for thesis defense and submission.

Code	Title	Hours
Master of Science in Sport Management (Non-Thesis option)		
Specified Courses		
SPMT 5362	Legal Issues in Sports	3
SPMT 5363	Leadership in Sport Management	3
SPMT 5370	Sport Marketing: Theory and Practice	3
SPMT 5371	Sport Finance and Sales	3
SPMT 5373	Event & Facility Management	3
SPMT 5374	Applied Research Methods in Sport Management	3
SPMT 5382	Community and Media Relations in Sport	3
SPMT 5383	Sport Consumer Behavior	3
SPMT 5384	Revenue Generation in Sport	3
SPMT 5387	Sport Analytics	3
Graduate Internship		
SPMT 5334	Sport Management Internship I	3
SPMT 5335	Sport Management Internship II	3
Total Hours		**36**

Notes

Per Academic Policy Statement 910312, a 3.0 overall grade point average is the absolute minimum required for graduation. A graduate student who falls below a 3.0 overall grade point average at the close of any semester during which one or more semester credit hours are attempted will be placed

on probation. If an enrolled student on probation fails to achieve a minimum 3.0 overall grade point average at the close of the next semester following the starting of the probation, the student will be academically terminated.

Student must have Graduate Standing for all courses in the program.

At the conclusion of the program, non-thesis students are required to pass a comprehensive examination covering content from select courses. The comprehensive examination can be taken when the student is within his/her final 6-hours of coursework and must be completed at least three weeks prior to the graduation date. Students must be enrolled during the semester in which the comprehensive examinations are taken.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Sport Management is designed to provide graduates with the following marketable skills:

- Professionalism and Ethical Decision Making: Students are taught what it means to be a "professional" in the sport industry. Students must demonstrate a high standard of professionalism in the classroom, during internship experiences, and through class projects with various stakeholders in the field. In addition, students are taught the importance of ethical and responsible decision making.
- Sales Experience: Students are taught valuable sales skills and strategies throughout the program by professors and sport industry leaders. Students will gain valuable sales experience through a variety of different opportunities with our intercollegiate athletic and professional sports partners.
- Social Awareness: Students are provided training and education of the alignment between social issues and the sport industry. Such issues include: diversity, gender equity, race issues, media influence, violence, etc. Students are taught the importance of being a socially responsible leader in the sport industry.
- Risk Management Skills: The sport management program is designed to prepare students to become effective leaders and managers in the sport industry. Students are taught the importance of developing a preventative law plan to deal with potential risks that may effect his/her sport organization.
- Event Management and Marketing Skills: Students are provided opportunities to produce and market a major event. As a part of the process, students engage in budgeting, event development and planning, marketing, and sales to execute a major event for the program, department, college, and university. The applied nature of the project utilizes existing program relationships to build course concepts into real-world settings.

Department of Physical Therapy

Chair: Dr. Sambit Mohapatra (smohapatra@shsu.edu)

Contact: 936-202-5091

Mission

The Department of Physical Therapy is committed to creating a student-centric environment that fosters academic excellence and encourages discovery. We aim to transform lives through innovative education, hands-on learning, and collaborative practice. By prioritizing professional development and community engagement, we empower our students to become compassionate, skilled professionals who make a meaningful impact in the field of physical therapy and the communities they serve.

Vision Statement

The Department of Physical Therapy strives to be a leader in innovative education and research, empowering future physical therapists to deliver compassionate, evidence-based care and dedicated service that transforms lives and enriches communities.

Highlights

- Innovative, student-centered curriculum design
- Hands-on learning experiences through community partnerships
- Interprofessional education opportunities
- Evidence-based practice integration
- Community engagement and service learning
- Research and scholarly activity opportunities
- Comprehensive clinical training partnerships
- State-of-the-art facilities and technology integration

Career Opportunities

Graduates of the Doctor of Physical Therapy program are prepared for diverse career paths across multiple settings and specialty areas:

Clinical Practice Settings

- **Acute Care Hospitals:** Inpatient rehabilitation, ICU, emergency departments
- **Outpatient Clinics:** Private practice, hospital-based outpatient, specialty clinics
- **Skilled Nursing Facilities:** Long-term care, transitional care units
- **Home Health Services:** In-home patient care, telehealth physical therapy
- **School-Based Practice:** Special education services, pediatric school settings
- **Industrial/Occupational Health:** Workplace injury prevention, ergonomics, return-to-work programs
- **Sports Medicine Facilities:** Professional sports teams, collegiate athletics, sports performance centers
- **Wellness and Fitness Centers:** Corporate wellness, community fitness programs
- **Research Institutions:** Clinical research, academic medical centers
- **Government and Military:** Veterans Affairs hospitals, military treatment facilities
- **International Healthcare:** Global health initiatives, medical missions

ABPTS Board-Certified Specialty Areas

The American Board of Physical Therapy Specialties (ABPTS) recognizes 10 specialized areas where physical therapists can achieve board certification:

1. **Cardiovascular and Pulmonary Physical Therapy (CCS)**
   - Cardiac rehabilitation, pulmonary rehabilitation, intensive care
2. **Clinical Electrophysiology (ECS)**
   - Electrodiagnosis, nerve conduction studies, EMG testing
3. **Geriatric Physical Therapy (GCS)**
   - Aging-related conditions, fall prevention, long-term care
4. **Neurologic Physical Therapy (NCS)**
   - Stroke rehabilitation, spinal cord injury, traumatic brain injury, movement disorders
5. **Orthopedic Physical Therapy (OCS)**
   - Musculoskeletal injuries, post-surgical rehabilitation, manual therapy
6. **Pediatric Physical Therapy (PCS)**

- Developmental delays, congenital conditions, early intervention

7. **Sports Physical Therapy (SCS)**
   - Athletic injury rehabilitation, sports performance enhancement, return-to-sport protocols
8. **Women's Health Physical Therapy (WCS)**
   - Pelvic health, prenatal/postpartum care, women's health conditions
9. **Wound Management (WMS)** - The latest addition to ABPTS specialties
   - Acute, chronic, and non-healing wound care and treatment
10. **Oncology Physical Therapy (OCS)**
    - Cancer rehabilitation, lymphedema management, survivorship care

Advanced Career Pathways

- **Academic Faculty:** University teaching positions, clinical education coordination
- **Clinical Research:** Principal investigator, research coordinator, clinical trials
- **Healthcare Administration:** Rehabilitation directors, department management
- **Consulting:** Healthcare consulting, expert witness testimony
- **Policy and Advocacy:** Professional association leadership, healthcare policy development
- **Entrepreneurship:** Private practice ownership, innovative healthcare solutions
- **Technology Integration:** Telehealth development, digital health platforms
- **Global Health:** International development, humanitarian missions

Leadership and Professional Development

- Professional association leadership roles
- Clinical mentorship and preceptorship
- Continuing education and conference speaking
- Professional writing and publication
- Quality improvement and patient safety initiatives
- Interprofessional collaboration and team leadership

SHSU Graduate School Opportunities in Related Disciplines

College of Health Sciences (p. 1611)

- Master of Science in Athletic Training (MSAT) (https://www.shsu.edu/programs/graduate/athletic-training/)
- Master of Public Health (MPH) (https://www.shsu.edu/academics/health-sciences/health/graduate/master-of-public-health/)

College of Osteopathic Medicine (p. 1713)

- Doctorate in Osteopathic Medicine (https://www.shsu.edu/academics/osteopathic-medicine/) (DO)

College of Education (p. 1548)

- Ed.D. in Higher Education Leadership (https://www.shsu.edu/programs/doctorate/higher-education-leadership/)

College of Criminal Justice (p. 1517)

- Ph.D. in Criminal Justice (https://www.shsu.edu/programs/doctorate/criminal-justice/)
- Master of Science in Criminal Justice (https://www.shsu.edu/programs/graduate/criminal-justice/)
- Ph.D. in Forensic Science (https://www.shsu.edu/programs/doctorate/forensic-science/)
- Master of Science in Victim Services Management (p. 1546)

College of Business Administration (p. 1481)

- Master of Business Administration (MBA) (https://www.shsu.edu/programs/graduate/business-administration/)

Additional graduate program opportunities outside of Sam Houston State University relevant to physical therapy include the Master's or Doctorate in Occupational Therapy, Master's in Orthotics and Prosthetics, Doctorate in Chiropractic Medicine, Doctorate in Medicine (MD), Doctorate in Pharmacy, and other health and biomedical science disciplines. These programs complement the DPT by addressing different aspects of patient care, rehabilitation, and healthcare delivery and are currently not offered at SHSU.

- Information forthcoming.

Scholarships

The SHSU Graduate School provides an opportunity for interested students pursuing their graduate degree to receive scholarships and funding for course work.

These opportunities are listed below and can be found through the following links:

- Financial Aid for Graduate Students (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- The General Graduate School Scholarship Application (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate A.S.P.I.R.E. (Academic Success Program in Research Empowerment) Program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate School R.O.A.D. to PhD program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

National Physical Therapy Scholarships

American Physical Therapy Association (APTA) Scholarships:

- **APTA Minority Scholarship Award:** Annual award for minority faculty pursuing postprofessional doctoral degrees
- **APTA Student Scholarships:** $5,000 for DPT students and $3,000 for PTA students (APTA membership required)
- **APTA Academy Scholarships:** Various specialty academy scholarships available through specific practice areas

Foundation for Physical Therapy Research:

- **Doctoral Scholarships:** Up to $45,000 in total awards, including $7,500 for coursework phase and $15,000 for candidacy phase of academic research doctoral studies

Professional Organization Scholarships:

- **APTA Pelvic Health Scholarships:** Multiple awards available annually in partnership with specialty organizations
- **NSCA Minority Scholarship:** $2,000 for minority students seeking DPT degrees
- **National Association of Black Physical Therapists (NABPT) Scholarships:** Various awards for underrepresented students

Private and Foundation Scholarships:

- **Daughters of the American Revolution Occupational/Physical Therapy Scholarship:** Awards for students in financial need accepted to accredited PT programs
- **Rizing Tide Crest Scholarship:** Annual awards for undergraduate students entering PT school or PTAs entering bridge programs
- **Shape Plus Health & Fitness Scholarship:** $1,500 for students pursuing health or fitness-related fields

Texas-Specific Opportunities

Texas Physical Therapy Association (TPTA) Scholarships:

- Annual scholarships for TPTA student members
- Specialty awards for students demonstrating leadership and community service
- Regional chapter scholarships available throughout Texas

Texas State Funding:

- Texas Educational Opportunity Grant (TEOG)
- Texas Public Educational Grant (TPEG)
- Various state-sponsored healthcare professional scholarships

For more information on available scholarships, visit SHSU Scholarships or contact the Department of Physical Therapy directly.

Faculty content here.

Department of Physician Assistant Studies and Athletic Training

Chair: Wilma Mealer, MPAS, PA-C (wjm026@shsu.edu)

Contact: 936-202-5108

Mission

The mission of the Department of Physician Assistant Studies and Athletic Training at Sam Houston State University promotes a team based student-centered curriculum that will encourage personal growth, life-long learning and community engagement, advancing future physician assistants that are capable of distinction in caring for the underserved and marginalized population of Texas and beyond.

Highlights

- Wide variety of laboratory and practical experiences including an anatomy dissection lab
- Clinical rotations at many world-renowned facilities
- Outstanding faculty and staff with extensive experience in their professional fields
- Small group, team-based learning seminar sessions
- Interprofessional activities with medical, nursing, physical therapy, dietetics, and athletic training students
- Professional development and simulation activities with high-fidelity models
- PANCE Prep software and resources

Career Opportunities

- Certified Physician Assistant (with completed MPAS degree and successful completion of certification and licensure)
- Direction patient care roles in a variety of settings from family medicine to palliative care
- Hospital based in-patient care to include hospital medicine, ICU critical care, emergency medicine, cardiology and more
- Academia/PA Education
- Research
- Clinical Operations
- Leadership
- Public Health
- Postgraduate training and certifications

SHSU Graduate School Opportunities in Related Disciplines

College of Health Sciences (p. 1611)

- Master of Science in Athletic Training (MSAT) (https://www.shsu.edu/programs/graduate/athletic-training/)
- Master of Science in Kinesiology (Sport and Human Performance) (https://www.shsu.edu/programs/graduate/kinesiology-sport-and-human-performance/)
- Master of Science in Sport Management (https://www.shsu.edu/programs/graduate/sport-management/)
- Master of Public Health (MPH) (https://www.shsu.edu/academics/health-sciences/health/graduate/master-of-public-health/)

College of Osteopathic Medicine (p. 1713)

- Doctorate in Osteopathic Medicine (https://www.shsu.edu/academics/osteopathic-medicine/) (DO)

Additional graduate program opportunities outside of Sam Houston State University may include Master's or Doctorate in Occupational Therapy, Master's in Orthotics and Prosthetics, Doctorate in Physical Therapy, Doctorate in Osteopathic Medicine, Doctorate in Chiropractic Medicine, Doctorate in Pharmacy, and other allied health and exercise science-related areas at other institutions (currently not offered at SHSU).

- Master of Science in Athletic Training (http://catalog.shsu.edu/graduate-and-professional/college-departments/health-sciences/kinesiology/ms-athletic-training/)

Scholarships

The SHSU Graduate School provides an opportunity for interested students pursuing their graduate degree to receive scholarships and funding for course work.

These opportunities are listed below and can be found through the following links:

- Financial Aid for Graduate Students (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- The General Graduate School Scholarship Application (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate A.S.P.I.R.E. (Academic Success Program in Research Empowerment) Program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate School R.O.A.D. to PhD program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)

College of Health Sciences

- Cady/Huskey-Health Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- COHS Bridge Scholarship: $2,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- Crowley/Gilbert Family Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)
- William (Al) and Elizabeth Rampmeier Endowed Scholarship: $1,000 (https://www.shsu.edu/dept/financial-aid/aid/scholarships/)

National Physician Assistant Scholarships

- Physician Assistant Foundation Scholarship: $1,000-$2,500 (https://pa-foundation.org/scholarships-fellowships/pa-student-scholarships/)
- Prentiss L. Harrison Memorial/African Heritage PA Caucus Scholarship: $500-$1,500 (https://ahcaapa.mypanetwork.com/page/106-scholarship-information/)
- PAs for Latino Health Scholarship: $1,000 (https://pa-foundation.org/pas-latino-health-scholarship/)
- LGBT PA Caucus: $1,000 Conference Attendance Grant (https://lbgtpa.wildapricot.org/students/)
- AAPA Veterans Caucus Scholarship: $1,500-$6,500 (https://www.veteranscaucus.org)
- PAs in Hospice and Palliative Medicine (PAHPM) Scholarship: $1,500 (https://pa-foundation.org/the-eva-dimitrov-md-pahpm-student-scholarship/)
- Association of Physician Assistants in Oncology Scholarship: $2,000 (http://www.apao.cc/)
- California Academy of Physician Assistants (http://www.capanet.org/)
- Pennsylvania Society of Physician Assistants Scholarship: $2,000 (http://www.pspa.net/)
- Physician Assistant Academy of Vermont Scholarship: $1,000 (https://paav.mypanetwork.com/page/648-the-paav-devlin-award/)
- Physician Assistants in Orthopaedic Surgery Scholarship: $5,000 (http://paos.org/)
- Society of PAs in Otorhinolaryngology/Head & Neck Surgery Scholarship (http://entpa.org/)
- Society of Army PAs Scholarship: $1,000 (http://sapa.org/)
- Connecticut PA Foundation Scholarship (http://connapa.org/)

Faculty content here.

Master of Science in Athletic Training

Athletic trainers (ATs) are highly qualified, multi-skilled healthcare professionals who collaborate with physicians to provide preventative services, emergency care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries and medical conditions. Athletic Training encompasses the prevention, examination, diagnosis, treatment, and rehabilitation of emergent, acute or chronic injuries and medical conditions. Athletic training is recognized by the American Medical Association (AMA), Health Resources Services Administration (HRSA), and the Department of Health and Human Services (HHS) as an allied health care profession (National Athletic Training Association (https://www.nata.org/about/athletic-training/)).

Mission

The mission of the Master of Science in Athletic Training (MSAT) degree program is to develop contemporary clinicians who collaborate with healthcare professionals and community partners to deliver patient-centered culturally competent care. The program strives to instill the qualities of a life-long learner that will progress graduates to clinical expertise.

Objectives

The MS in Athletic Training degree program strives to:

1. Pursue academic excellence to equip students for contemporary jobs in an ever-changing healthcare system;
2. Value professional development of faculty, staff, and students to inspire life-long learning that aligns with personal and professional goals;
3. Engage and promote interprofessional education and practice with other professions;
4. Seek out diverse faculty, staff, students, and clinical placement sites to grow cultural competence and collaboration in patient-centered clinical decisions;
5. Incorporate outreach opportunities for faculty, staff, and students to engage with community stakeholders through service; and
6. Provide a research experience for students to become creative in their discovery of new and ever advancing knowledge to help inform clinical decision-making.

Accreditation

- *Sam Houston State University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).*

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/athletic-training/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the Master of Science in Athletic Training (MSAT) program are reviewed on a rolling basis with one admission process annually. The priority deadline for admissions is **November 15** and the final deadline is **April 15,** annually. The MSAT program is a cohort model which starts each summer during the Summer 1 term. Applicants to the MSAT must meet the following requirements to be considered for regular admission.

Admission Requirements

Students must meet the following admission requirements to be considered for full regular admission (http://catalog.shsu.edu/graduate-and-professional/academic-policies-procedures/admission/#admission-types) to the MSAT program:

1. Demonstrate completion of a bachelor's degree with an official transcript from the awarding institution or SHSU transcript for 3+2 students showing completion of prescribed coursework.
2. Have a cumulative undergraduate GPA of 3.00 or higher for full regular graduate admission.
3. Have earned a grade of C or higher in all program prerequisite coursework.
4. Completed a minimum of 50 clinical observation hours under the supervision of a Certified and Licensed Athletic Trainer (in states where licensure is required).
5. Have proof of current Basic Life Support (BLS) Certification from the American Heart Association.
6. Have a completed program Immunization Review Form (https://www.shsu.edu/academics/health-sciences/kinesiology/graduate/msat-documents/Immunization%20April%202021.pdf?language_id=1) that is signed by a Primary Care Provider (MD, DO, PA, NP).
7. Have a minimum of two signed evaluation forms. One of the forms must be from a Licensed (in states where licensure is required) and Certified Athletic Trainer who supervised your observation hours.
8. Complete all program prerequisites prior to the start of the program.

Application Process

Applicants must complete the following **two-step** application process, which involves two separate application fees:

- **The SHSU Graduate School application fee is $50.**
- **ATCAS charges $90 for the first program you apply to and $55 for each additional program.**
  - **ATCAS offers a Fee Assistance Program (https://help.liaisonedu.com/ATCAS_Applicant_Help_Center/Starting_Your_ATCAS_Application/Getting_Started_with_Your_ATCAS_Application/2_Application_Fees/)**

Step 1: Apply to the Graduate School (http://www.shsu.edu/dept/graduate-studies/) at SHSU by using the ApplyTexas Portal. (https://www.applytexas.org/)

Step 2: Apply to the MSAT Program at SHSU using the ATCAS Submission Portal (https://help.liaisonedu.com/ATCAS_Applicant_Help_Center/Starting_Your_ATCAS_Application/Getting_Started_with_Your_ATCAS_Application/2_Application_Fees/).

The following documents will need to be submitted to ATCAS:

- Official Transcripts
  - Official transcripts from all institutions attended must be sent directly to ATCAS.
- Clinical Observation Hours Log (minimum of 50 clinical observation hours signed by a certified and licensed athletic trainer)
- Proof of Basic Life Support (BLS Certification) from the American Heart Association
- Completed Immunization Review Form (https://www.shsu.edu/academics/health-sciences/kinesiology/graduate/msat-documents/Immunization+April+2021.pdf?language_id=1)
- Two completed references. One of the forms must be from a Licensed and Certified Athletic Trainer who supervised your observation hours.
- Personal Statement

Program Prerequisites

The following prerequisite coursework is designated as either required or recommended. The required coursework must be satisfactorily completed (a grade of C or better) to be considered for regular admission to the MSAT program. The recommended coursework is optional but completed work in this area may benefit the student in their pursuit of admission to the MSAT program. Recommended prerequisite coursework that is completed at the time of program application will add additional points to the candidate acceptance rubric for the proposed degree.

MSAT Program Required Prerequisite Coursework

The following bachelor's level coursework must be completed prior to applying to the MSAT Program to be considered for full admission. Prerequisite coursework can be in progress when the application is submitted for Conditional Admission. All required coursework **must** be completed prior to starting the MSAT program and includes:

Code	Title	Hours
SHSU Course Listing: Required Program Prerequisites [1]		
BIOL 1406	General Biology I	4
or BIOL 1407	General Biology II	
or BIOL 2411	General Botany	
or BIOL 2413	General Zoology	
BIOL 2403	Human Anatomy & Physiology I	4
BIOL 2404	Human Anatomy & Physiology II	4
CHEM 1411	General Chemistry I	4
or CHEM 1406	Inorganic & Environmental Chemistry	
FSCN 2362	Nutrition	3
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology of Exercise	3
MATH 3379	Statistical Methods in Practice	3
or STAT 3379	Statistical Methods in Practice	
or MATH 1342	Elementary Statistics	
or MATH 1370	Introduction to Biomedical Statistics	
or BIOL 4374	Biostatistics	
PHYS 1301	General Physics-Mechanics and Heat	3
PSYC 1301	Introduction To Psychology	3

[1] Recommended Program prerequisites or equivalent.

MSAT Program Recommended Prerequisite Coursework

The recommended prerequisites for the MSAT are not required for admission to the program but can increase the admission score if completed with a grade of **C or higher**. Students seeking admission to the SHSU MSAT program are encouraged to enroll in these courses if electives are available on a student's undergraduate degree plan.

The following bachelor's level coursework is **recommended** to be completed prior to applying to the MSAT Program:

Code	Title	Hours
SHSU Course Listing: Recommended Program Prerequisites [1]		
ATTR 2300	Introduction to Athletic Training	3
ATTR 3370	Prevention & Care of Injuries	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3350	Principles of Public Health	3
HLTH 3360	Epidemiology	3
KINE 4335	Sport and Exercise Psychology	3
KINE 4362	Biomechanical Analysis	3
SOCI 2319	Introduction To Ethnic Studies	3

[1] Recommended Program prerequisites or equivalent.

Retention Requirements

In alignment with the requirements of all graduate students at Sam Houston State University (Academic Policy Statement 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf)), students must meet the following requirements to remain in good academic standing:

- Maintain an SHSU GPA of 3.0 or higher each semester.
- Additionally, each MSAT student must meet the following program specific benchmarks at their respective level to progress to the next level in the MSAT program:
  - Maintain a Cumulative MSAT GPA of 3.0 or higher,
  - Complete specified didactic assessments (as outlined in the course syllabus) at a grade of 75 percent or higher,
  - Complete all Lab Objective Structured Clinical Examination (OSCE) assessments with a grade of 75 percent or higher, and
  - Complete all assessed skills in the clinical setting at the level of 'proficient' or 'exceeds proficient'.
- *The MSAT program at SHSU has established 75% as the benchmark for competency and proficiency within the specific assessments listed here. Students who do not meet these benchmarks within the policies outlined in the course syllabi will be placed on probation within the MSAT program and will need to retake the course the next time it is offered. This will delay the student's progression in the MSAT program. Students who do not meet programmatic benchmarks a second time will be terminated from the MSAT program. Students who fail to meet two or more programmatic retention criteria which are unrelated to one another (i.e., separate courses) in a single semester will be terminated from the MSAT program.*

Academic Probation, Termination, or Dismissal for graduate students at SHSU can be found in Academic Policy Statement 910312 (https://www.shsu.edu/dept/academic-affairs/documents/aps/910312%20Academic%20Probation%20and%20Suspension.pdf) and includes the following:

- A graduate student who falls below a 3.0 SHSU GPA at the close of any semester or summer semester will be placed on probation. Two summer sessions are equivalent to one long semester. If an enrolled student fails to achieve a minimum of a 3.0 SHSU GPA at the close of the next semester following the start of the probation, the student will be terminated from graduate studies.
- A graduate student that earns an F in any graduate course at SHSU will be terminated from graduate studies.
- A student who earns a grade of C or below in any course at SHSU (repeated or distinct course) within the academic program may have their graduate status reviewed by a committee of the department or college graduate faculty. The committee will recommend appropriate remediation for the student.
- A student who fails to meet any approved program-specific standards for academic performance will be placed on programmatic probation with remediation or terminated from the program and not permitted to register for the subsequent cohort courses in the program.

Removal of Academic Probation for Graduate Students:

- The student will be removed from probation at the close of the semester or summer semester in which the SHSU GPA achieves the required standard or
- In the case of program specific benchmark requirements for the MSAT, the student will be removed from probation when the remediation requirements set forth by the program have been met.

Appeals

- All graduate students in the MSAT program must use procedures outlined specifically in SHSU Policy 910312 (https://www.shsu.edu/academics/science-and-engineering-technology/documents/910312%20Academic%20Probation%20and%20Suspension_2022.pdf) for filing an appeal.

Degree Awards

- MSAT degrees will be awarded at the completion of the degree plan only when a student is in good standing with a 3.0 GPA or higher and has met all program specific benchmarks within didactic, laboratory, and clinical courses.
- For students in 3+2 MSAT degree options, both the undergraduate and graduate degree of MSAT will be awarded at the completion of the MSAT requirements only when a student is in good standing only when a student is in good standing with a 3.0 GPA or higher and has met all program specific benchmarks within didactic, laboratory, and clinical courses. 3+2 MSAT students who are not able to complete the MSAT degree are encouraged to revert back to their original BS degree plan and complete the undergraduate degree.
- MSAT students are required to complete a research project to complete the degree. This project satisfies the comprehensive requirements for the MSAT degree. The student's research faculty mentor must verify that all components of the research project have been met in order for degrees to be awarded.

Code	Title	Hours
Master of Science in Athletic Training		
Required Courses		
ATTR 5121	Prehospital Emergency Medicine and Acute Care Lab	1
ATTR 5140	Clinical Experiences in Athletic Training IV	1
ATTR 5210	Clinical Experiences in Athletic Training I	2
ATTR 5220	Clinical Experiences in Athletic Training II	2
ATTR 5230	Clinical Experiences in Athletic Training III	2
ATTR 5300	Injury Prevention and Protective Strategies	3
ATTR 5310	Clinical Evaluation and Assessment Fundamentals	3
ATTR 5311 & ATTR 5111	Lower Extremity Injuries and Lower Extremity Injuries Lab	4
ATTR 5312 & ATTR 5112	Upper Extremity Injuries and Upper Extremity Injuries Lab	4
ATTR 5313	Head and Facial Injuries in Sport	3
ATTR 5314	Spine and Pelvis Injuries	3
ATTR 5315	Non-Orthopedic Pathologies in Sport and Exercise	3
ATTR 5321	Prehospital Emergency Medicine and Acute Care	3
ATTR 5330 & ATTR 5130	Therapeutic Interventions I and Therapeutic Intervention I Lab	4
ATTR 5331 & ATTR 5131	Therapeutic Interventions II and Therapeutic Intervention II Lab	4
ATTR 5340	Administration in Athletic Training	3
HLTH 5371	Health Care Quality & Safety	3
HLTH 5378	Health Care Informatics	3
KINE 5374	Applied Research Methods in Kinesiology	3
ATTR 5450	Immersive Clinical Experiences in Athletic Training	4
Total Hours		**58**

Accreditation

- *Sam Houston State University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).*

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Master of Science in Athletic Training is designed to provide graduates with the following marketable skills:

- Communicate and collaborate with other healthcare professions.
- Promote healthy lifestyle behaviors to minimize the risk of injury and illness.
- Implement systematic, evidence-based examinations and assessments to determine best care for active patient populations.
- Utilize best practices in immediate and emergency care situations.
- Apply therapeutic interventions, including therapeutic modalities, manual therapies, and therapeutic exercise.
- Integrate best practices of policy development, documentation practices, and basic business practices to promote optimal patient care.

Department of Public Health

Chair: Amanda Scarbrough, PhD (aes060@shsu.edu), (hpe_rsk@shsu.edu)(936) 294-2665

Associate Chair: Rosanne Keathley, PhD (hpe_rsk@shsu.edu), (936) 294-1171

Assistant Chair: Adannaa Alexander, MPH, (aoalexander@shsu.edu) (936) 294-2718

Website: Department of Public Health (http://www.shsu.edu/academics/health-sciences/health/index_new.html)

Mission

The mission of the Department of Public Health is to foster student-centered learning for early and advanced health professionals; to conduct applied, evidence-based research in population health; and to improve health and well-being through community engagement at the local, state, and global levels.

Highlights

- Nationally recognized degree programs
- Interprofessional Education (IPE) opportunities that promote collaboration across disciplines
- Career focused program content, activities, and internships
- Diverse student population of various cultural and ethnic backgrounds
- Student centered faculty and staff
- Graduates are prepared for successful entry into the workforce

Degree Programs

- Master of Health Administration (p. 1639) (MHA)
- Master of Public Health (p. 1641) (MPH)
- Master of Science in Health Care Quality and Safety (p. 1645) (HCQ&S)
- Graduate Certificate in Health Care Quality and Safety (p. 1647) (HCQ&S)

Dual Degree Programs

- Doctor of Osteopathic Medicine and Master of Public Health (p. 1785)

Career Opportunities

- Public and private hospitals and clinics
- Public health education and operations
- Health service managers
- Epidemiological research and practice
- Environmental health field stations and research
- Disaster response and preparedness
- International health outreach organizations
- City, county, and state health departments
- Corporate health promotion programs
- Community, and medical, and Public health navigators
- Federal, state, and local health agencies
- School, community college, and university settings
- Manage quality operations in health care settings
- Direct patient safety initiatives
- Voluntary health agencies and foundations
- Correctional health care operations
- Retirement, assisted living, and skilled nursing facilities

Internships

The graduate Public Health and Health Care Quality and Safety programs offer a 200 to 300-hour professional internship. The internship will be conducted in either the public, community, medical, or corporate health setting under the instruction and supervision of a qualified professional. The graduate internship site and supervisor must be approved by the graduate program coordinator.

Scholarships

The SHSU Graduate School provides an opportunity for interested students pursuing their graduate degree to receive scholarships and funding for course work.

These opportunities are listed below and can be found through the following links:

- Financial Aid for Graduate Students (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- The General Graduate School Scholarship Application (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate A.S.P.I.R.E. (Academic Success Program in Research Empowerment) Program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)
- Graduate School R.O.A.D. to PhD program (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html#d455b79d-2b6e-417b-b0b0-cb683222f0bb)

Director/Chair: **Amanda Walters Scarbrough**

Adannaa Oparanozie Alexander, MPH (aoalexander@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, MPH, Emory University; AB, Washington University

Stephen L Brown, PHD (sbrown@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of Maryland-College Park; MS, Arizona State University; BS, Brigham Young University

Daphne K Fulton, DPH (dsf005@shsu.edu), *Clinical Associate Professor of Public Health*, *Department of Public Health*, DPH, Texas A&M University; MPH, Texas A&M University; BS, Sam Houston State University

Praphul Joshi, PHD (pxj015@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of S Carolina-Columbia; MPH, Univ of S Carolina-Columbia; BDS, Bangalore University

Rosanne S Keathley, PHD (hpe_rsk@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Texas A&M University; MA, Sam Houston State University; BAT, Sam Houston State University

Khalid Mahmood Khan, DPH (kxk051@shsu.edu), *Associate Professor of Public Health*, *Department of Public Health*, DPH, Columbia University; MSC, University of Dhaka; BSC, University of Dhaka

Yu Liu, PHD (yxl068@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, Emory University; MPH, Yale University; BBA, Nankai University

Ray Gene Newman, PHD (rgn006@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, New York University; MPHIL, New York University; MBA, California St Un-Long Beach; BS, East Central University

George Kevin Randall, PHD (gkr001@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Iowa State University; MS, Iowa State University; BSED, Illinois State University

Kiran Sapkota, PHD (kxs133@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, University of Iowa; PHD, University of Iowa; MS, University of Iowa; MPH, New Mexico State University; MS, New Mexico State University; MS, Tribhuvan University; BS, Tribhuvan University

Amanda Walters Scarbrough, PHD (aes060@shsu.edu), *Associate Professor and Acting Chair of Public Health*, *Department of Public Health*, PHD, Univ of Texas Medical Branch; MHSA, George Washington University; BA, De Pauw University

Mst Rasheda Sultana, PHD (mxs218@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, PHD, Grad Sch & Univ Center; MPHIL, Grad Sch & Univ Center; MSC, University of Dhaka; BSC, University of Dhaka

Yue Xie, PHD (yxx008@shsu.edu), *Associate Professor of Practice in Public Health*, *Department of Public Health*, PHD, Univ of Tx Health Science Cntr; ME, Massachusetts Inst of Tech; MHA, Tulane University; BBA, Univ of Miami

Master of Health Administration

A Master of Health Administration (MHA) degree enables students and professionals to advance their careers and take on leadership roles in healthcare delivery and financing organizations. These leaders plan, direct, and coordinate services in a wide variety of care delivery settings. The program blends coursework in healthcare management, policy, and business principles, providing a comprehensive education that equips graduates to navigate the complex and evolving healthcare landscape. Career outcomes include healthcare executive, health services manager, and policy and advocacy specialist, among others.

Students must meet the following requirements for admittance to the Master of Heath Administration (MHA) degree program:

1. A student can be admitted to the program with a BA/BS in any field with an earned GPA of 3.0.
2. There are no prerequisite courses required for admission to the program.
3. The GRE/GMAT is not required for admission to the program.
4. Students must submit:
   - Official undergraduate and graduate transcripts.
   - Written essay including a statement of interest in the program and in the field of health administration.
   - Interview with MHA Graduate Coordinator, graduate administrative associate, and member(s) of graduate faculty.
   - Two to three letters of recommendation from previous employer, faculty/administrator that are written on organization/school letterhead.

Code	Title	Hours
Master of Health Administration		
Required Courses		
ACCT 5302	Financial Reporting & Business Decisions	3
FINC 5300	Business Finance Environment	3
HLTH 5355	Health Services Administration	3
HLTH 5363	Management and Leadership for Health Professionals	3
HLTH 5378	Health Care Informatics	3
HLTH 5381	Health Economics and Finance	3
HLTH 5382	Healthcare Marketing	3
HLTH 6360	Healthcare Organizational Behavior & Theory	3
HLTH 6365	Health Care Policy	3
HLTH 6367	Healthcare Human Resource Management	3
SCMG 5325	Project Management	3
Electives		
Select one from the following:		3
HLTH 5371	Health Care Quality & Safety [1]	
HLTH 6373	Leading Change in Health Care Organizations	
HLTH 6397	Public Health Capstone / Practicum [1]	
Total Hours		**36**

[1] Students must meet the requirements for HLTH 6397 through their work experience or completion of the capstone/practicum project. Students completing the requirements through their work experience may select HLTH 5371 or HLTH 6373 to meet the remaining 3SCH of their degree program. Please consult with the Graduate Coordinator for more information.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Master of Health Administration is designed to provide graduates with the following marketable skills:

- Through their education, students will learn appropriate and professional ways in which to be able to communicate effectively with stakeholders in explaining health policies and procedures.
- Students will have well-developed sets of problem-solving skills which will enable them to effectively respond to the changes and fast-paced health environment.

- Students will be prepared to serve in healthcare leadership positions through a variety of professional development experiences and activities in their coursework.
- Students will have the knowledge and skills to effectively interpret and communicate health data to improve health-related policies and procedures.
- Students will acquire the skills to strategically analyze the organization, structure, and function of healthcare entities, public health functions, and regulatory systems in the state, national, and global environments.

Master of Public Health

Program Coordinator: Daphne S. Fulton, PhD (dsfulton@shsu.edu), 936-294-2668

The Master of Public Health (MPH) degree program prepares professionals with the knowledge, skills, and practices to manage the health and safety concerns of local and global communities. Students study the impact of recent public health issues, policy and procedures, and develop hands-on experience through a culminating experience such as a practicum with a public health agency. The MPH program offers a thesis and non-thesis option for the degree.

Classes are offered 100% online.

MPH Concentrations

The **Global Health and Social Justice** concentration, which includes the rural health aspect, teaches students about health issues that impact public health on a local as well as global scale. Many public health issues are found in rural settings, whether it be in the U.S. or other countries. The poor, the unemployed, the homeless, and those with limited or no access to healthcare constitute some of the challenges for health policy and public health solutions. These issues span countries and influence healthcare within a local and global context.

A graduate of this program will function as a public health specialist or manager of health services in accordance with national standards. He/she will be expected to provide leadership roles in improving the health of populations, oversee clinical health care delivery, promote health, prevent disease, and supervise provision of health services.

Competencies gained will enable graduates to specifically interpret national health data and use relevant information to plan for policy changes and advocate for improved quality management methods in the healthcare industry.

The **Health Education and Promotion** concentration incorporates the principles, practices, and development of a working philosophy of health education to prepare students for engagement in four broad areas: community health, medical or clinical health, school health, and worksite health promotion. Students receive training in public health promotion and interventions. They learn to address factors in the broader social, economic, and policy environments to improve the health of populations. Students develop practice and research skills for population-level interventions, including program development, implementation and evaluation. A graduate of this program will be able to effectively recognize and assess health disparities, communicate health information, promote health equity, and mobilize resources for social change.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/public-health/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students must meet the following requirements for admittance to the Master of Public Health (MPH) degree program:

- Graduate Admissions Application (submitted online through ApplyTexas (http://www.shsu.edu/admissions/apply-texas.html)).
- Application Fee.
- An earned baccalaureate degree from an accredited institution with a minimum GPA of 3.0 for the last 60 credit hours.
- Official transcripts of bachelor and any graduate degrees.
- Three letters of recommendation (from professors and/or employers).
- A written summary (minimum 500 words) on why you seek an MPH, and how you plan to use the degree.
- A resume (to include all professional, employment, and volunteer activities).
- An interview by Skype (or other means).

Additional requirements for International Applicants:

- Official scores for the TOEFL or IETLS.
- English translation and evaluation of official transcripts for applicants with undergraduate degrees from non-U.S. institutions.
- The program does consider international students, however, SHSU will not be able to issue an I-20 to students seeking an F-1 Student Visa.

Non-Thesis Track

Code	Title	Hours
Master of Public Health in Public Health (Non-Thesis)		
Required Courses		
HLTH 5318	Current Topics in Environmental Health	3
HLTH 5353	Epidemiology	3
HLTH 5355	Health Services Administration	3
HLTH 5361	Social and Behavioral Determinants of Public Health	3
HLTH 5376	Public Health Biostatistics	3

HLTH 6352	Public Health Grant Writing	3
HLTH 6396	Health Program Planning/ Pre-Capstone	3
HLTH 6397	Public Health Capstone / Practicum	3
Required Concentration Courses [1]		**12**
Choose one of the following concentrations:		
Global Health and Social Justice		
HLTH 5350	Public Health and Social Justice	
HLTH 5351	Immigrant and Refugee Health	
HLTH 5363	Management and Leadership for Health Professionals	
HLTH 6365	Health Care Policy	
Health Education and Promotion		
HLTH 5331	Foundations of Community Health	
HLTH 5332	Human Ecology	
HLTH 5360	Communication Theory and Practice for Health Professionals	
HLTH 5374	Research Seminar	
Prescribed Electives [2]		**6**
Total Hours		**42**

1 All required concentration courses (12 SCH) must be taken from one concentration either Global Health and Social Justice OR Health Education and Promotion.

2 Choose 2 courses from the appropriate Concentration Prescribed Electives course lists below.

Thesis Track

Code	Title	Hours
Master of Public Health in Public Health (Thesis)		
Required Courses		
HLTH 5318	Current Topics in Environmental Health	3
HLTH 5353	Epidemiology	3
HLTH 5355	Health Services Administration	3
HLTH 5361	Social and Behavioral Determinants of Public Health	3
HLTH 5376	Public Health Biostatistics	3
HLTH 6352	Public Health Grant Writing	3
HLTH 6396	Health Program Planning/ Pre-Capstone	3
HLTH 6397	Public Health Capstone / Practicum	3
Required Concentration Courses [1]		12
Choose one of the following concentrations:		
Global Health and Social Justice		
HLTH 5350	Public Health and Social Justice	
HLTH 5351	Immigrant and Refugee Health	
HLTH 5363	Management and Leadership for Health Professionals	
HLTH 5365	Aging and Health Promotion	
Health Education and Promotion		
HLTH 5331	Foundations of Community Health	
HLTH 5332	Human Ecology	
HLTH 5360	Communication Theory and Practice for Health Professionals	
HLTH 5374	Research Seminar	
Thesis Option [2]		
HLTH 6098	Thesis I	3
HLTH 6099	Thesis II	3
Total Hours		**42**

[1] All required concentration courses (12 SCH) must be taken from one concentration either Global Health and Social Justice OR Health Education and Promotion.

[2] The thesis track requires a more academically-focused research thesis (instead of the capstone project) to be completed before awarding the degree. Those selecting the thesis option are required to successfully complete an oral defense of their research study. A successful thesis defense and approval for publication fulfill the comprehensive exams requirement for thesis students. Students must also maintain continuous enrollment in thesis courses until the thesis has been successfully completed. Please consult the Graduate Catalog for more details and visit with the Master of Public Health Graduate Coordinator for more information.

Concentration Options

Global Health and Social Justice

Code	Title	Hours
Concentration Prescribed Electives: Global Health and Social Justice		
HLTH 5317	Case Studies in Occupational Epidemiology	3
HLTH 6371	Advanced Concepts in Health Care Quality	3
HLTH 5373	Risk Management in Health Care Organizations	3
HLTH 5378	Health Care Informatics	3
HLTH 5380	Global Health Partnerships	3
SCST 5335	Global Perspectives in Homeland Security	3
SOCI 5355	Seminar in Social Inequality	3
SOCI 5338	Sociology of Disasters	3
Graduate level courses in related disciplines approved by the Graduate Program Coordinator		3-6

Health Education and Promotion

Code	Title	Hours
Concentration Prescribed Electives: Health Education and Promotion		
HLTH 5333	Colloquium in Human Sexuality	3
HLTH 5334	Colloquium in Use and Abuse of Drugs	3
HLTH 5338	Colloquium in Consumer Health Education	3
HLTH 5350	Public Health and Social Justice	3
HLTH 5351	Immigrant and Refugee Health	3
HLTH 5363	Management and Leadership for Health Professionals	3
HLTH 5365	Aging and Health Promotion	3
HLTH 5378	Health Care Informatics	3
HLTH 5380	Global Health Partnerships	3
HLTH 6365	Health Care Policy	3
SOCI 5322	Seminar In Medical Sociology	3
Graduate level courses in related disciplines approved by the Graduate Program Coordinator		3-6

The MPH program includes a capstone/practicum course at, or near the end of the program of study (e.g., in the final year or term), that incorporates both the applied practical experience and the integrative learning experience. The HLTH 6397 course includes a practicum that generates a practice-based project and culminates with an extensive student evaluation of the experience. Each student will develop a summary of the integration of the public health knowledge, skills, and dispositions they experienced during the practicum and assess their knowledge and mastery of public health foundational and concentration courses. The supervisor of the capstone/practicum will complete a comprehensive evaluation of the student's performance during the applied experience and submit it to the MPH Coordinator for review. The HLTH 6397 course serves as the comprehensive exam component for the MPH program. Students must earn a grade of "B" or higher in HLTH 6397 to be eligible for graduation. Please, contact the Master of Public Health Graduate Coordinator for more information.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MPH is designed to provide graduates with the following marketable skills:

- Prepare to be community leaders to increase public and social awareness of public health topics.
- Serve in important roles in the overall well-being of communities (including under-served and unserved portions of the population).

- Acquire communication and leadership skills.
- Develop analytical and assessment skills.
- Employ critical thinking and system skills.
- Demonstrate cultural competency.
- Gain knowledge of the history and current structure of the inequality of local, national, and global health trends and disparities, particularly for the immigrant and refugee populations.
- Participate in group and collaborative projects, some in concert with community agencies.

Master of Science in Health Care Quality and Safety

Program Coordinator: Amanda Scarbrough, PhD (aes060@shsu.edu), 936-294-1168

The Online Master of Science in Health Care Quality and Safety degree program is targeted toward health care professionals engaged or planning to be engaged in leadership roles in the quality and safety areas in hospitals, nursing homes, clinics, and other health care organizations. Professionals in health care quality and safety manage the strategic and operational aspects of quality operations; establish goals and standards; lead the quality improvement programs; provide training and coaching in quality improvement tools and techniques; develop, implement and monitor measures to assess quality performance; direct organization-wide quality initiatives including the National Patient Safety Initiatives; and direct ongoing monitoring of accreditation survey readiness activities. The MS in Health Care Quality and Safety degree offers a non-thesis option for the program.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/health-care-quality-and-safety/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students must meet the following requirements for admittance to the Master of Science in Health Care Quality and Safety Program:

- Graduate Admissions Application (submitted online through ApplyTexas).
- Application Fee.
- An earned baccalaureate degree from an accredited institution with a minimum GPA of 3.0 for the last 60 credit hours.
- Official transcripts of bachelor and any graduate degrees.
- Three letters of recommendation (from professors and/or employers).
- A written summary (minimum 500 words) on why you seek an MS in Health Care Quality and Safety, and how you plan to use the degree.
- A resume (to include all professional, employment, and volunteer activities).
- An interview by Skype (or other means).
- The program currently does not accept international students on F-1 student visas. If you are on another type of visa, or have additional questions regarding your eligibility to apply, please, contact the Office of International Programs at 936-294-4737 or nld015@shsu.edu.

Non-Thesis Option

Code	Title	Hours
Master of Science in Health Care Quality and Safety (Non-Thesis Option)		
Core Coursework		
HLTH 5355	Health Services Administration	3
HLTH 5371	Health Care Quality & Safety	3
HLTH 5373	Risk Management in Health Care Organizations	3
HLTH 5376	Public Health Biostatistics	3
HLTH 5378	Health Care Informatics	3
HLTH 5381	Health Economics and Finance	3
HLTH 5384	Quality and Safety Public Reporting Systems	3
HLTH 6371	Advanced Concepts in Health Care Quality	3
HLTH 6373	Leading Change in Health Care Organizations	3
HLTH 6396	Health Program Planning/ Pre-Capstone	3
Internship		
HLTH 6397	Public Health Capstone / Practicum	3
Electives		
Select any HLTH 5000 or 6000 level course or approved by advisor		3
Total Hours		**36**

Note: All courses require Graduate Standing in the program.

The non-thesis track of the Master of Science in Health Care Quality and Safety (HCQ&S) program requires a real-life health care quality or safety improvement capstone project to be completed by the student prior to awarding the degree. The project will be completed as part of the required capstone course during the last semester of the student's studies. Please contact the Health Care Quality and Safety Graduate Coordinator for more information.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Health Care Quality and Safety is designed to provide graduates with the following marketable skills:

- Demonstrate knowledge of the health care quality and safety profession.
- Demonstrate ability to recognize and solve health care quality and/or safety issues.
- Participate in research of and find solutions to problems in the field of Health Care Quality and Safety.
- Recognize leadership and management theories and practices, including those of change management.
- Apply knowledge of the current United States health care system in solving problems.

Graduate Certificate in Health Care Quality and Safety

The online Graduate Certificate in Health Care Quality and Safety is targeted toward busy health care professionals engaged or planning to be engaged in leadership roles in the quality and safety areas in hospitals, nursing homes, clinics, and other health care organizations. Professionals in health care quality and safety manage the strategic and operational aspects of quality operations; establish goals and standards; lead the quality improvement programs; provide training and coaching in quality improvement tools and techniques; develop, implement, and monitor measures to assess quality performance; direct organization-wide quality initiatives, including the National Patient Safety Initiatives; and direct ongoing monitoring of accreditation survey readiness activities.

This certificate program is designed for health care professionals and administrators, who are at a point in their careers where they require advanced skills and knowledge to develop, manage, and sustain a culture of excellence in organizations and health systems.

This Graduate Certificate is not eligible to receive Title IV funding – Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/health-care-quality-and-safety/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants must have earned an undergraduate or graduate degree and be currently working or have worked in a health care related field for more than 3 years.

Specific requirements for admission to the Graduate Certificate in Health Care Quality and Safety program are as follows. All required items should be submitted to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (https://www.shsu.edu/admissions/apply-texas.html)
2. Application Fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)
3. Undergraduate degree from an accredited U.S. institution or with Admission Committee approval
4. Official transcript(s) from all post-secondary schools attended
5. Minimum GPA of 3.0
6. Writing samples:
   a. Please, include a 250- to 500-word essay describing your reasons for undertaking study at Sam Houston State University, and your academic objectives, career goals, and related qualifications, including collegiate, professional, and community activities, relevant to your program of interest. Include any substantial accomplishments.
   b. Please, provide a 500-word description of one key issue in Health care Quality or Patient Safety and discuss possible solutions.
7. Two letters of recommendation from:
   a. Individuals who served in a supervisory capacity, and who can strongly attest to the applicant's work ethic, and/or
   b. Academic instructors who can strongly attest to the applicant's academic ability.
8. A CV or resume
9. On-campus, video, or phone interview with the M.S. in Health Care Quality and Safety coordinator or admission committee member for selected competitive applicants meeting all admissions criteria

The coordinator and the admissions committee of the certificate program and the M.S. in Health Care Quality and Safety program will review all applications and will determine satisfactory completion of certificate requirements.

Note: Transfer of credit from other institutions may not be applied toward the credits required for the certificate.

The Graduate Certificate in Health Care Quality and Safety requires five (5) graduate courses or 15 semester credit hours. These courses will be offered online. The certificate program may be obtained in as little as 9 months, depending on the chosen elective course.

Code	Title	Hours
Graduate Certificate in Health Care Quality and Safety		
Required Courses		
HLTH 5355	Health Services Administration	3
HLTH 5371	Health Care Quality & Safety	3
HLTH 5373	Risk Management in Health Care Organizations	3
HLTH 6371	Advanced Concepts in Health Care Quality	3
Select one of the following:		**3**
HLTH 5375	Statistical Design in Health	
HLTH 5378	Health Care Informatics	
HLTH 5381	Health Economics and Finance	

HLTH 5384	Quality and Safety Public Reporting Systems	
HLTH 6373	Leading Change in Health Care Organizations	
Total Hours		**15**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Health Care Quality and Safety is designed to provide graduates with the following marketable skills:

- Demonstrate knowledge of the health care quality and safety profession.
- Demonstrate ability to recognize and solve health care quality and/or safety issues.
- Participate in research of and find solutions to problems in the field of Health Care Quality and Safety.
- Recognize leadership and management theories and practices including those of change management.
- Apply knowledge of the current United States health care system in solving problems.

School of Nursing

Director: Dr. Devon Berry (devonmberry@shsu.edu)
Phone: 936-202-5116

Assistant Director: Dr. Monique Huntley (mch067@shsu.edu)
Phone: 936-202-5133

Assistant Director: Dr. Desha Johnson-Makiya (dxj016@shsu.edu)
Phone: 936-202-5128

Assistant Director: Ms. Brittany Tower (bxt043@shsu.edu)
Phone: 936-202-5109

Website: School of Nursing (http://www.shsu.edu/academics/nursing/)

Academic Programs

The School of Nursing currently offers only undergraduate degree programs. See the current undergraduate catalog (p. 721) for more details.

Courses

The School of Nursing does not currently offer graduate courses. Please consult the current undergraduate catalog (p. 721) for course offerings.

College of Humanities and Social Sciences

Administrative Officers

Title/Department	Officer
Dean	Chien-pin Li, Ph.D. cxl085@shsu.edu; (936) 294-2200
Senior Associate Dean	Leif French, Ph.D. lmf027@shsu.edu; (936) 294-2455
Associate Dean, Student Success	James Crosby, Ph.D. crosby@shsu.edu; (936) 294-2202
Associate Dean, Academic Programs	Carroll Ferguson Nardone, Ph.D. cfnardone@shsu.edu; (936) 294-2203
Department of Communication Studies	Frances Brandau, Ph.D., Chair scm_feb@shsu.edu; (936) 294-1356
Department of English	Tracy Bilsing, Ph.D., Interim Chair eng_teb@shsu.edu; (936) 294-1402
Department of History	Brian Jordan, Ph.D., Chair bmj018@shsu.edu; (936) 294-4460
Department of Political Science	Jason Enia, Ph.D., Chair jason.enia@shsu.edu; (936) 294-1467
Department of Psychology and Philosophy	Maria Botero, Ph.D., Interim Chair mbotero@shsu.edu; (936) 294-3052
Department of Sociology	Bart Stykes, Ph.D., Chair jbs048@shsu.edu; (936) 294-1511
Department of World Languages and Cultures	Maria Barker, Ph.D., Chair mhb015@shsu.edu; (936) 294-4584

About the College

The College of Humanities and Social Sciences consists of seven academic units, the Departments of :

- Communication Studies
- English
- History
- Political Science
- Psychology and Philosophy
- Sociology
- World Languages and Cultures

Mission

The College of Humanities and Social Sciences supports excellence in research, prioritizes student success, and collaborates with the community to provide a high-quality and accessible education that prepares students to engage in, and successfully navigate, a vibrant and multifaceted world.

Contact Information
Phone: (936) 294-2200
Fax: (936) 294-2207
CHSS Building 290

Website
College of Humanities and Social Sciences (https://www.shsu.edu/academics/humanities-and-social-sciences/)

Highlights

- College of Humanities and Social Sciences (CHSS) faculty are committed to teaching excellence, curriculum innovation, research/scholarship, and community and university service.
- Faculty in the College of Humanities and Social Sciences have been recognized for their research and scholarship with national awards. Among these awards is a finalist for the Pulitzer Prize in History, a National Endowment for the Arts Fellow in Literature, and a National Endowment for the Arts Fellow in Creative Writing.

- CHSS is home to three Distinguished Professors: Drs. Marcus Boccaccini, Psychology; Mary Alice Conroy, Psychology; and Helena Halmari, English. Distinguished professors are recognized for having achieved a high level of scholarly distinction in their field and are recognized as national leaders in their disciplines.
- A national survey ranked the Psychology Program at Sam Houston State in the top ten Clinical Psychology Doctoral Programs.
- Four faculty in the Psychology department are recipients of the prestigious John Exner Award for young scholars in personality assessment. The four faculty and award years are: Dr. Jamie Anderson, 2018; Dr. Ryan Marek, 2021, and Dr. Adam Natoli, 2024, Dr. Jaren Ruchensky, 2025.
- Courses in the College of Humanities and Social Sciences exceed the national norms in teacher effectiveness and course excellence.
- CHSS is home to many student organizations, both honorary and professional, to help build student resumes with active learning opportunities. Several of these clubs have been recognized regionally and nationally.
- CHSS houses two Research Centers:
    - The Center for the Study of Disasters & Emergency Management (CDEM)
    - The Center for Multi-cultural Rural Development (CMRD)

Master's Degrees

Departments	Programs
Communication Studies	Communication Studies, MA
English	Creative Writing, Editing, and Publishing, MFA
English	English, MA
English	Technical Communication, MA
English	English, MA/Creative Writing, Editing, and Publishing, MFA (Dual Degree)
History	History, MA
History and Political Science	History and Political Studies, MA
Political Science	Political Science, MA
Political Science	Public Administration, MPA
Psychology and Philosophy	Psychology - Experimental Psychology, MA
Psychology and Philosophy	Psychology - Clinical Psychology, MA
Psychology and Philosophy	Psychology - School Psychology, SSP
Sociology	Sociology, MA
World Languages and Cultures	Spanish, MA

Doctoral Degrees

Departments	Programs
Psychology and Philosophy	Clinical Psychology, PhD

Certificates

Departments	Programs
Communication Studies	Communication Studies
English	English
History	American History
Political Science	Political Science
Psychology and Philosophy	General Psychology
Sociology	Community Development
Sociology	Sociology

CHSS Graduate Scholarship

This enrollment-based scholarship awards $1000 per semester for full-time students and $500 per semester for part-time students. Application is located in Scholarships4kats.

Other

Departments within the college have numerous scholarships accessible through the Scholarships4kats application process.

Several of the department graduate programs have academic clubs that support students' integration into graduate studies and provide networking opportunities for students and faculty.

Departments often provide internship/practicum experience in the application of academic work to worlds of practice.

Department of Communication Studies

Chair: Dr. Frances E. Brandau (scm_feb@shsu.edu)

Graduate Director: Dr. Lisa Dahlgren (lxv024@shsu.edu), 936-294-1970

Contact Information
Suite 410 College of Humanities and Social Sciences Building (CHSS)
Phone: (936) 294-1497
Email: Communication Studies (commstudies@shsu.edu)

Website: Department of Communication Studies (https://www.shsu.edu/academics/communication-studies/)

About

The Department of Communication Studies graduate program comprises a dedicated group of award-winning faculty members committed to empowering working professionals and aspiring scholars. With a focus on interpersonal communication, this online graduate program offers strong theory, research methods, and elective courses, equipping students with a solid academic foundation. The two-year master's degree and one-year certificate program are designed to provide advanced human communication skills that elevate students' careers to new heights.

The graduate program provides individuals with the credentials to teach community college courses, dual credit in high schools, or serve in adjunct/lecturer roles at the college level. The program also offers a strong foundation for those aspiring to pursue doctoral studies. With elective coursework tailored to meet diverse professional goals, the program is an ideal choice for individuals aiming to excel in fields such as education, management, leadership, and human resources and/or those seeking to advance their careers.

The fully online graduate program is committed to offering a flexible and accessible learning environment that accommodates the busy schedules of working professionals. Students in the M.A. degree track may additionally apply for the certificate in Communication Studies after completing 18 credit hours and the required courses.

Mission

The mission of the graduate program in the Department of Communication Studies is to provide working professionals and aspiring scholars with advanced communication skills, empowering them to excel in diverse professional and academic settings.

Vision Statement

To remain a leading online graduate program that fosters excellence in human communication, preparing our students to make significant contributions in their chosen fields and communities.

Highlights

- Graduate assistantships are available on a competitive basis.
- Opportunities to collaborate with faculty members on research and co-author publications are available.
- Travel funding is available to support graduate students presenting at professional conferences (contingent upon funding availability).
- Many of our graduates have successfully transitioned to teaching positions at the college level.

- Master of Arts in Communication Studies (p. 1654)
- Graduate Certificate in Communication Studies (p. 1655)

Director/Chair: **Frances Elizabeth Brandau**

Michael I Arrington, PHD (mia016@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of Southern Mississippi

Frances Elizabeth Brandau, PHD (scm_feb@shsu.edu), *Professor and Chair of Communication Studies*, *Department of Communication Studies*, PHD, LSU & A&M College; MA, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Yixin Chen, PHD (cindychen@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, University at Buffalo, Suny; MA, Univ of Texas-El Paso; ME, Huaqiao University; BE, Huaqiao University

Lisa Joanne Dahlgren, PHD (lxv024@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; MA, Univ of Hawaii At Manoa; BA, Univ of Hawaii At Manoa

Caleb George Hubbard, PHD (cgh034@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Oklahoma-Norman; MA, West Texas A&M State Univ; BS, West Texas A&M State Univ

Colton Ellis Krawietz, PHD (cek043@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Texas At Austin; MED, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, LSU & A&M College

Anna Hommadova Lu, PHD (anyalu@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; PHD, University of Tsukuba; MA, University of Tsukuba; BA, Minnesota State Un-Moorhead

Anne Bennett Cook Smithson, PHD (abs055@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, George Mason University; JD, Northern Kentucky; MA, Georgetown University; BA, Univ of Kentucky

Kelly Lynn Matheney Weikle, PHD (klw121@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, Ohio University; MA, Ohio University; MMC, Univ of S Carolina-Columbia; BSJ, West Virginia University

Shuangyue Zhang, PHD (sxz002@shsu.edu), *Professor of Communication Studies*, *Department of Communication Studies*, PHD, Ohio State University; MA, Kent State University; MA, Shandong University; BA, Shandong Normal University

Master of Arts in Communication Studies

Communication Studies is an academic discipline that concerns human communication–both verbal and nonverbal. It deals with a variety of issues related to these processes, including the sharing of meaning, the encoding and decoding of messages, and the development of relationships using communication in a variety of contexts. Our department has a strong focus on interpersonal communication across a variety of contexts.

The graduate program equips individuals with the credentials to teach at community colleges, dual credit high school courses, or serve as adjunct faculty. It also provides a strong foundation for those pursuing professional careers. With flexible electives tailored to diverse professional goals, the program is particularly suited for individuals aiming to advance their careers in fields such as education, management, leadership, corporate training, consulting, human resources, and nonprofit management.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/communication-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the online Communication Studies Master's Program are reviewed on a rolling basis, with **priority application deadlines** of: March 1st for the fall semester; October 1st for the spring semester. **We will accept and continue to review applications until all program slots are filled**. Students seeking admission to the graduate program in Communication Studies must submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.*
4. Applications with a GPA of 3.25 or higher will be automatically admitted into the program regardless of their major. Applications with a GPA of 3.0-3.24 that have a major in communication studies or related (e.g., sociology, psychology) will be automatically admitted into the program. Applications with a GPA of 2.99 or lower will be required to submit a letter of intent that summarizes the applicant's educational and professional goals, how a Communication Studies degree or certificate will help the applicant obtain his/her professional goals, how the applicant's personal and professional experiences have prepared him/her for our graduate program, and a narrative that provides an explanation for the applicant's low GPA and why the GPA is not indicative of the applicant's academic and professional potential.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Applicants must submit all application materials directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html) by the university deadlines of August 1 for Fall, December 1 for Spring, and May 15 for Summer.

Note: Incomplete applications are held in the Graduate Admissions until they are complete. If you have any questions about your admission file, please contact the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html).

Students enrolled in the Master's Program in Communication Studies must complete 36 hours of coursework. (Please note that there is, currently, no thesis option available in the program.)

Of these hours, at least 30 must be completed within the Department of Communication Studies at Sam Houston State University.

All graduate students are required to take a written comprehensive examination over all coursework taken for the MA degree. Students must be enrolled in the University the semester or summer session in which the comprehensive exam is administered.

The four required courses for the M.A. program may not be offered every academic year. These courses are COMS 5331 Communication Studies Methods and Research, COMS 5332 Statistical Methods For Communication, COMS 5335 Advanced Communication Theory, and COMS 5360 Advanced Interpersonal Communication. It is important, therefore, that when students notice any one of these courses being offered in a given semester, they should register to take the course during that semester. Otherwise, the student may not be able to graduate on time, even if he or she takes a full load every semester because he or she is lacking a core course. Students should contact the Graduate Director for academic advisement.

Code	Title	Hours
Master of Arts in Communication Studies		
Required courses		
COMS 5331	Communication Studies Methods and Research	3
COMS 5332	Statistical Methods For Communication	3
COMS 5360	Advanced Interpersonal Communication	3
COMS 5335	Advanced Communication Theory	3
Prescribed Electives		

Select an additional 24 hours of COMS 5000 level course work. [1]	24
Total Hours	**36**

[1] COMS Prescribed Elective coursework must be in addition to Required Courses, therefore, excludes the use of COMS 5331, COMS 5332, COMS 5360 or COMS 5335.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Communication Studies is designed to provide graduates with the following marketable skills:

- Professional oral and written communication.
- Effective Presentation skills.
- Research and analytical skills.
- Evaluation of sources and information validity.
- Data synthesis.
- Critical thinking and the ability to compare and contrast information.
- Multi-cultural competencies.
- Conflict management and resolution.
- Interpersonal communication.
- Leadership and teamwork.
- Problem solving.
- Ethical communication

Graduate Certificate in Communication Studies

The Graduate Certificate in Communication Studies is an 18-hour online program. The certificate consists of two required courses and four elective courses. Full-time students will be able to complete the program in a year. Using summer classes, part-time students will be able to complete the certificate in a year and a half.

The elective coursework can be tailored to advance various professional goals in areas such as education, management, leadership, human resources, nonprofit, government employment, and more.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/communication-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the online Communication Studies Certificate Program are reviewed on a rolling basis, with **priority application deadlines** of: March 1st for the fall semester; October 1st for the spring semester. We will accept and continue to review applications until all program slots are filled. Students seeking admission to the graduate program in Communication Studies must submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.*
4. Applications with a GPA of 3.25 or higher will be automatically admitted into the program regardless of their major. Applications with a GPA of 3.0-3.24 that have a major in communication studies or related (e.g., sociology, psychology) will be automatically admitted into the program. Applications with a GPA of 2.99 or lower will be required to submit a letter of intent that summarizes the applicant's educational and professional goals, how a Communication Studies degree or certificate will help the applicant obtain his/her professional goals, how the applicant's personal and professional experiences have prepared him/her for our graduate program, and a narrative that provides an explanation for the applicant's low GPA and why the GPA is not indicative of the applicant's academic and professional potential.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Applicants must submit all application materials directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html) by the university deadlines of August 1 for Fall, December 1 for Spring, and May 15 for Summer.

Notes:

Incomplete applications will be held by the Office of Graduate Admissions until the application file is complete. If students have questions about their application file, they should contact the Office of Graduate Admissions.

If a student enrolled in the Graduate Certificate in Communications Studies wishes to switch over the Master's of Arts in Communication Studies, they should contact the Graduate Director for departmental approval.

Code	Title	Hours
Graduate Certificate in Communication Studies		
Required Courses		
COMS 5335	Advanced Communication Theory	3
COMS 5360	Advanced Interpersonal Communication	3
Concentration OR Prescribed Electives [1, 2]		**12**
Concentration in Communication Studies for Educators and Dual Credit Instructors [1]		
Select four from the following:		
COMS 5334	Pedagogy of Public Speaking for Novice Instructors	
COMS 5362	Advanced Intercultural Communication	
COMS 5363	Interpersonal Conflict	
COMS 5381	Intergenerational Family Communication	
COMS 5395	Social Support and Well-Being	
Concentration in Communication Studies for Leadership, Management, and Business Professionals [1]		
Select four from the following:		
COMS 5350	Computer Mediated Communication	
COMS 5362	Advanced Intercultural Communication	
COMS 5363	Interpersonal Conflict	
COMS 5371	Sex & Gender In Communication	
COMS 5396	Advanced Risk Communication	
COMS 5397	Persuasion & Social Influence	
Prescribed Electives		
Select an additional 12 hours of COMS 5000 level coursework. [2]		
Total Hours		**18**

1 Students must choose between either one of two Concentration options: Communication Studies for Educators and Dual Credit Instructors or Communication Studies for Leadership, Management, and Business Professionals OR pick from the Prescribed Elective courses to complete degree requirements.

2 COMS Prescribed Elective coursework must be in addition to Required Courses, therefore, excludes the use of COMS 5335 and COMS 5360.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Communication Studies is designed to provide graduates with the following marketable skills:

- Professional oral and written communication.
- Effective presentation skills.
- Research and analytical skills.
- Evaluation of sources and information validity.
- Data synthesis.
- Critical thinking and the ability to compare and contrast information.
- Multi-cultural competencies.
- Conflict management and resolution.
- Interpersonal communication.

- Listening skills.
- Leadership and teamwork.
- Problem solving.
- Ethical communication.

Department of English

Interim Chair: Dr. (jblevins@shsu.edu)Tracy Bilsing (ENG_TEB@shsu.edu)

Assistant to the Chair: Jerin Milam (jbm066@shsu.edu)

Contact Information:
(936) 294-1404
Evans Building 458

Website: Department of English (http://www.shsu.edu/academics/english/)

Mission

The Department of English at Sam Houston State University has five programs that form the basis of our teaching, research, and service agendas: Literature and Linguistics; Creative Writing; Technical Communication; Rhetoric and Composition; and English Education. Our mission is to investigate, develop, preserve, and disseminate spoken, written, visual, and digital communication practices implemented in cultural, civic, academic, creative, and professional communities. The department offers courses that represent the full range of the University's offerings, from required core curriculum courses to specialized seminars and directed studies.

We prepare the next generations of teachers, scholars, artists, and citizens–we create scholarship and creative works that advance new pathways of thought; analyze texts for greater cultural appreciation and discernment; employ rhetorical knowledge to engage in community literacy projects; and use literature to reimagine basic concepts of what it means to be human.

Our strength is the variety of approaches we use to explore language and text that encourage critical insight to the peculiarities of the human condition that lie within. We are committed to critical reimagining, even while maintaining a rigorous historical curriculum. From analogue to digital, oral to written, literary to filmic, imaginative to concrete, English studies present an array of possibilities for exploration, inquiry, and discovery.

Highlights

- The English Department focuses on excellent teaching and research, featuring a Minnie Stevens Piper Teaching Award winner, a Texas State University Regents' Professor and Distinguished Professor, a former Senior Fulbright Scholar, an American Council of Learned Societies Fellow, National Endowment of the Arts Fellow, and numerous Sam Houston State University Teaching Excellence Award winners.
- Faculty actively publish in national and international journals, win national literary awards, and have served as editors and co-editors of professional journals such as *Nathaniel Hawthorne Review, Intertexts, The Texas Review*, and *The Journal of Finnish Studies*. The department has recently hosted conferences of the North American Society for the Study of Romanticism, the Society of Comparative Literature and the Arts, as well as, conferences in Medieval and Renaissance literature and Medical Humanities.
- Nationally recognized writers are brought to campus each year to read their works to students and discuss the writing and publishing process. Such writers have included Tim O'Brien, Larry McMurtry, Richard Bausch, George Garrett, X.J. Kennedy, Galway Kinnell, Allison Joseph, Maurice Kilwein, Marilyn Nelson, and Alex Lemon.
- The English Department, along with Sam Houston State University, hosts the National Book Awards Festival.
- Students are provided opportunities to publish and present their scholarly and creative writing and to enter writing contests (such as the Academy of American Poets Prize). Numerous students have published works in regional and national journals.
- Students have the opportunity to write technical documents for non-profit and other community groups.

Career Opportunities

Students who earn a Master's degree in English find themselves well-prepared for future professional careers, graduate study, community college teaching, and enriched secondary teaching as well as publishing, editing, and professional writing.

- Master of Fine Arts in Creative Writing, Editing, and Publishing (p. 1661)
- Master of Arts in English (p. 1662)/Master of Fine Arts in Creative Writing, Editing, and Publishing (p. 1662) (Dual Degree) (p. 1662)
- Master of Arts in English (p. 1665)
- Master of Arts in Technical Communication (p. 1668)
- Graduate Certificate in English (p. 1669)

Student Organizations and Activities

Students in English may participate in many activities that will enrich their graduate experience and support the courses they take. These include the following:

- **Teaching Assistantships** provide opportunities for students to teach college-level writing courses. A limited number of **Research Assistantships** are also offered.
- **Scholarly and Creative Writing Colloquia** provide students with the opportunity to present their work.

Internships and Study Abroad

- **Texas Review Press** - Students may serve as interns at Texas Review Press. Interns are involved in a variety of tasks, ranging from charting the development of a manuscript to evaluating submissions to the literary journal.
- ***The Texas Review*** is a nationally recognized literary magazine that, twice a year, publishes fiction, poetry, nonfiction prose, and reviews by writers from around the world. Qualifying graduate students may serve as interns while working as members of the *Review* and Press staff.
- A graduate **exchange program** with the English Department at the University of Turku, Finland, provides students with an opportunity to study abroad for either a semester or a full year and transfer coursework toward their SHSU degree.

Scholarships

Several scholarships are available for outstanding students. Please see the Department Chair and/or the Department's website for more information. Information on University scholarships may be obtained from the Office of Academic Scholarships website (http://www.shsu.edu/scholarships/) or telephone (936) 294-1672. Students can register for scholarship consideration through Scholarships4Kats (https://shsu.academicworks.com/).

Kimberly K Bell, PHD (eng_kkb@shsu.edu), *Professor of English and Dean of Honors College*, *Department of English*, PHD, Georgia State University; MA, Clark University; BA, The American College of Greece

Tracy E. Bilsing, PHD (eng_teb@shsu.edu), *Associate Professor and Acting Chair of English; Associate Dean, Honors College*, *Department of English*, PHD, Texas A&M University; MA, Sam Houston State University; BA, Sam Houston State University

Jacob Damon Blevins, PHD (jblevins@shsu.edu), *Professor of English*, *Department of English*, PHD, Texas Tech University; MFA, McNeese State University; MA, McNeese State University; BA, McNeese State University

Paul W Child, PHD (pchild@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Notre Dame; MA, The Johns Hopkins University; MA, James Madison University; BA, Saint John'S University

Michael T Demson, PHD (mtd007@shsu.edu), *Professor of English*, *Department of English*, PHD, Grad Sch & Univ Center; MA, Grad Sch & Univ Center; BA, Reed College

Robert E. Donahoo, PHD (eng_rxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Duke University; MA, Duke University; BA, Baylor University; BA, Baylor University

Diane Dowdey, PHD (eng_dxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Wisconsin-Madison; MA, Univ of Missouri-Columbia; BA, Texas Christian University; BA, Texas Christian University

Sirkka Helena Halmari, PHD (halmari@shsu.edu), *Distinguished Professor of English*, *Department of English*, PHD, Univ of Southern California; MA, Univ of Southern California; MA, California St Un-San Bernardin; MSS, University of Tampere; MA, University of Tampere; BA, University of Tampere

Adam L Hubrig, PHD (axh151@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BA, Concordia University

Robyn MacKenzie Johnson, PHD (rmj036@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Calif-Riverside; AM, Univ of Tennessee-Chattanooga; BA, Depaul University

Scott Aaron Kaukonen, PHD (kaukonen@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Univ of Missouri-Columbia; MFA, Univ of Arizona; BA, Hope College

Ginger Y Ko, PHD (gingerko@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Georgia; MFA, Univ of Wyoming; BS, Indiana University-Bloomington; BA, Univ of Calif-Los Angeles

Nicolas J Lantz, MFA (nick.lantz@shsu.edu), *Professor of English*, *Department of English*, MFA, Univ of Wisconsin-Madison; BA, Lewis & Clark College

Zoe Nicole McDonald, PHD (znm004@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Vermont&State Agr Col; BA, Univ of Wyoming

Audrey D Murfin, PHD (adm034@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Reed College

Carroll F. Nardone, PHD (cfnardone@shsu.edu), *Professor of English and Associate Dean, CHSS*, *Department of English*, PHD, New Mexico State University; MA, Ohio State University; BA, Univ of Texas-El Paso

April Lynn OBrien, PHD (aprilobrien@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Clemson University; MA, Suny Coll of Buffalo; BA, Grove City College

Shyam Bahadur Pandey, PHD (sbp029@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Purdue University; MA, Minnesota State Univ-Mankato; MED, Kathmandu University, Nepal; BED, Tribhuvan University

April A Shemak, PHD (aas004@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Univ of Wisconsin-Madison; BA, Univ of Wisconsin-Madison

Katie Jean Shinkle, PHD (kjs078@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Denver; MFA, Univ of Alabama-Tuscaloosa; BA, Grand Valley State University

Yingying Tang, PHD (yxt045@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Auburn University; MS, North Carolina State Univ

Kandi A Tayebi, PHD (eng_kat@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Denver; MA, Univ of Northern Colorado; BA, Univ of Northern Colorado

Xiaobo Wang, PHD (xiaobo.belle.wang@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Georgia State University; BA, Northwest Normal University

Master of Fine Arts in Creative Writing, Editing, and Publishing

The Master of Fine Arts in Creative Writing, Publishing, and Editing is designed

- to assist students in their development as writers of fiction, poetry, and/or creative nonfiction;
- to provide practical, hands-on experience in the field of editing and publishing;
- to deepen a student's critical engagement with language and literature, and
- to prepare students for careers as published authors, as well as teachers of creative writing in community colleges and universities, secondary schools, prisons, libraries, and community centers of various types.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/creative-writing-editing-publishing/) for additional information, such as cost, delivery format, contact information, or to schedule a visit

Students seeking admission to the MFA in Creative Writing, Editing, and Publishing must supply the following materials directly to the Office of Graduate Admissions: (https://www.shsu.edu/dept/graduate-admissions/transition.html)

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. A statement of purpose, of 500 to 1000 words, articulating the applicant's intentions for pursuing an MFA from our program.
4. Transcripts documenting all prior degrees.* (Note: Students with credentials from foreign universities must have their transcripts reviewed by a transcript evaluation service.)
5. Three letters of recommendation that discuss the applicant's potential for success in a creative writing graduate program.
6. A creative writing sample of either 20 pages of prose or a collection of 8 - 10 poems.
7. International applicants ONLY: Official TOEFL scores

The MFA Program only accepts applicants for the Fall semester; the priority deadline for applying to the Fall semester is March 15th.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

The MFA Program welcomes qualified international applicants; however, an individual who does not hold American citizenship must be accepted in regular admission status, without qualifications.

A holistic review of each applicant's file will be completed, and admission will be granted on a competitive basis.

Note: Incomplete applications will not be reviewed.

To earn the MFA in English, students must complete a minimum of forty-eight hours of graduate credit with a focus in either Fiction, Creative Nonfiction, or Poetry, as indicated below.

- All MFA students are required to take ENGL 5340 at the first opportunity.
- Before beginning work on a thesis or undertaking a directed study, the student must have completed at least twelve hours of graduate English coursework at Sam Houston State University, including ENGL 5340 in good standing.
- All MFA students complete a two-semester thesis sequence (ENGL 6096 and ENGL 6097).
- All MFA students must pass the MFA program's portfolio requirement. Students must be enrolled in the University for the terms in which they complete and defend the portfolio.
- A student may take ENGL 5312 twice, with approval of the Department Chair.

Code	Title	Hours
Master of Fine Arts in Creative Writing, Editing, and Publishing		
Specified Courses		
ENGL 5340	The Writer's Life	3
ENGL 5331	Creative Writing: Fiction	3
or ENGL 5334	Creative Writing: Nonfiction	
ENGL 5333	Practicum: Editing and Publishing (Students take 6 hours of practicum)	6
ENGL 5332	Creative Writing: Poetry	3
ENGL 5336	Narrative Theory	3
or ENGL 5337	Poetic Theory and Prosody	

ENGL 5331, 5332, 5334 (Students take 9 additional hours from these three courses)		9
Literature, Language, & Pedagogy Courses (Students must take 15 hours from among the following):		**15**
ENGL 5301	Graduate Research: Methods and Theories	
ENGL 5302	Literary Theory	
ENGL 5303	History of the Development of the English Language	
ENGL 5304	English Linguistics	
ENGL 5306	American Literature: Pre-Civil War	
ENGL 5307	American Literature: Post-Civil War	
ENGL 5308	United States Ethnic Literatures	
ENGL 5309	British Literature: Pre-Industrial	
ENGL 5310	British Literature: Post-Industrial	
ENGL 5311	Anglophone Literature	
ENGL 5312	Directed Study	
ENGL 5367	Practicum in Teaching College Composition	
ENGL 5374	Gender, Sexuality & Literature	
ENGL 5384	Rhetoric & Composition Theory	
ENGL 6301	Literary Theory Seminar	
ENGL 6302	Seminar in Major Author	
ENGL 6303	English Linguistics Seminar	
ENGL 6304	Literary Movements Seminar	
ENGL 6305	Literary Genre Seminar	
ENGL 6306	Global Ethnic Literatures	
Thesis		
ENGL 6096	MFA Thesis I	3
ENGL 6097	MFA Thesis II	3
Total Hours		**48**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MFA in Creative Writing, Editing, and Publishing is designed to provide graduates with the following marketable skills:

- Effective written and oral communication.
- Critical thinking across disciplines.
- Editing skills for publishing industry.

M.A. in English/M.F.A. in Creative Writing, Editing, and Publishing (Dual Degree)

The MA in English/MFA in Creative Writing, Editing, and Publishing (Dual Degree) program gives students the opportunity to earn both the MA in English and the MFA in Creative Writing, Editing, and Publishing in a single 60-hour program. This program is intended for those students interested in advanced graduate work in both creative writing and academic literary studies.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/creative-writing-editing-publishing/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the MA in English/MFA in Creative Writing, Editing, and Publishing (Dual Degree) program must supply the following materials directly to the Office of Graduate Admissions: (https://www.shsu.edu/dept/graduate-admissions/transition.html)

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. A statement of purpose, of 500 to 1000 words, articulating the applicant's intentions for pursuing our dual MA/MFA program.

4. Transcripts documenting all prior degrees.* (Note: We expect students to have completed at least twelve hours of upper-division English courses with a 3.0 GPA or better; students with credentials from foreign universities must have their transcripts reviewed by a transcript evaluation service.).
5. Four letters of recommendation that discuss the applicant's potential for success in a dual creative and academic English graduate program. Ideally, applicants will have two letters that address academic preparation for the MA and two letters that address creative writing preparation for the MFA.
6. A creative writing sample of either 20 pages of prose or a collection of 8 - 10 poems.
7. A critical writing sample of at least ten pages, preferably one that demonstrates research and critical writing skills particular to the study of literature and language and your ability to defend a cogent critical argument in a scholarly idiom appropriate to upper-division English classes. While the writing sample should be a single, sustained piece of work, typical of graduate-level writing, we will accept combinations of shorter pieces in exceptional cases.
8. **International applicants ONLY**: Official TOEFL scores

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

The MA in English/MFA in Creative Writing, Editing, and Publishing (Dual Degree) program welcomes qualified international applicants; however, an individual who does not hold American citizenship must be accepted in regular admission status, without qualifications.

A holistic review of each applicant's file will be completed, and admission will be granted on a competitive basis.

Note: Incomplete applications will not be reviewed.

Please note that the MFA program only admits students in the fall semester, and this affects the timeline for how students can apply to or switch into the MA/MFA Dual Degree:

- **A prospective student who wishes to be admitted simultaneously to both programs of the MA/MFA Dual Degree must apply to begin the Dual Degree in the fall.**
- **A prospective student may apply to begin the MA program in the spring, and during that first semester may then apply to the MFA program to begin in the fall. If admitted to the MFA program, the student can then switch to the Dual Degree starting in the fall.**
- **A prospective student may apply to begin the MA program in the fall, and during their first or second semester may then apply to the MFA program to begin in the fall of their second year. If admitted to the MFA program, the student can then switch to the Dual Degree starting in the fall of their second year.**
- **A prospective student may apply to begin the MFA program in the fall, and during their first or second semester may then apply to the MA program to begin in the spring or the next fall. If admitted to the MA program, the student can then switch to the Dual Degree program starting in the semester they would start the MA program.**
- **No student may switch from a single degree program to the dual degree program after completing more than 18 credit hours in the first program.**

- To earn the MA in English/MFA in Creative Writing, Editing, and Publishing (Dual Degree), students must complete a minimum of 60 hours of graduate credit in accordance with core components of each degree plan.
- All students must complete the following core MFA requirements:
  - 15 hours of creative writing workshops
  - 6 hours of Publishing and Editing
  - 3 hours of narrative or poetic theory
  - ENGL 5340 The Writers Life
  - MFA Thesis, ENGL 6096 and ENGL 6097
  - successfully pass the MFA program's portfolio requirement. Students must be enrolled in the University for the terms in which they complete and defend the portfolio.
- All students are required to complete the following core MA requirements
  - ENGL 5301 and ENGL 5302 must be taken at the first opportunity.
  - 21 hours of graduate English electives; at least 9 hours must be at the 6000 level
  - successfully complete the graduate comprehensive exam (which includes a presentation of graduate research). Students must be enrolled in the University for the term in which they complete the graduate comprehensive exam.
- Students MAY choose to do an MA Thesis (in addition to the required MFA thesis) in lieu of 6 hours of Electives. Thesis students would then complete a two-semester MA thesis sequence (ENGL 6098 (http://catalog.shsu.edu/search/?P=ENGL%206098) and ENGL 6099 (http://catalog.shsu.edu/search/?P=ENGL%206099)).
- Before beginning work on a thesis, undertaking a directed study, or taking the oral examination (graduate research presentation), a student must complete at least twelve hours of graduate English coursework at Sam Houston State University, including ENGL 5301 and ENGL 5302 and be in good standing.

- After taking ENGL 5301 and ENGL 5302, all MA students must complete the English graduate assessment examination conducted each May.
- A student may take ENGL 5339 (http://catalog.shsu.edu/search/?P=ENGL%205339) twice, with approval of the Department Chair.

Code	Title	Hours
M.A. in English/M.F.A. in Creative Writing, Editing, and Publishing (Dual Degree)		
MFA Core		
Workshop Requirement (5331, 5332, and 5334 can be repeated for credit)		15
ENGL 5331	Creative Writing: Fiction	
or ENGL 5332	Creative Writing: Poetry	
or ENGL 5334	Creative Writing: Nonfiction	
ENGL 5333	Practicum: Editing and Publishing (Course taken twice)	6
ENGL 5336	Narrative Theory	3
or ENGL 5337	Poetic Theory and Prosody	
ENGL 5340	The Writer's Life	3
ENGL 6096 and ENGL 6097 (MFA Thesis I and II)		6
MA Core		**6**
ENGL 5301	Graduate Research: Methods and Theories	
ENGL 5302	Literary Theory	
MA Electives (At least 9 hours must be at the 6000 level, which may include ENGL 6098 and 6099 for students writing an MA thesis)		**21**
ENGL 5303	History of the Development of the English Language	
ENGL 5304	English Linguistics	
ENGL 5306	American Literature: Pre-Civil War	
ENGL 5307	American Literature: Post-Civil War	
ENGL 5308	United States Ethnic Literatures	
ENGL 5309	British Literature: Pre-Industrial	
ENGL 5310	British Literature: Post-Industrial	
ENGL 5311	Anglophone Literature	
ENGL 5312	Directed Study	
ENGL 5335	Workshop In Teaching Writing	
ENGL 5367	Practicum in Teaching College Composition	
ENGL 5374	Gender, Sexuality & Literature	
ENGL 5384	Rhetoric & Composition Theory	
ENGL 6301	Literary Theory Seminar	
ENGL 6302	Seminar in Major Author	
ENGL 6303	English Linguistics Seminar	
ENGL 6304	Literary Movements Seminar	
ENGL 6305	Literary Genre Seminar	
ENGL 6306	Global Ethnic Literatures	
ENGL 6330	Special Topics in English	
Total Hours		**60**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The M.A. in English/M.F.A. in Creative Writing, Editing, and Publishing is designed to provide graduates with the following marketable skills:

- Think critically and creatively across disciplines.
- Communicate effectively through writing and oral communication.
- Conduct and interpret various modes of research.
- Edit texts for publishing.

Master of Arts in English

The MA Program in English at Sam Houston State University has four defined goals, all of which share the common aim of preparing graduates as scholars, teachers, writers, and advocates for the Humanities. The program strives to be dynamic, encompassing, and diverse in its approach to the study of language and literature, offering both surveys of Classical, British, and American literature, as well as seminars that challenge these traditions by taking into account diverse perspectives, other literatures, and a broad range of methodologies. By completing a series of seminars in the English language, in literature and textual studies, and in research methods and literary theory, the program aims to teach students how to:

1. demonstrate the ability to think theoretically and critically about language and literature, including the ability to apply research methods and critical theories reflective of the current state of scholarship;
2. demonstrate the ability to write cogently about language and literature, with an awareness of interdisciplinary connections;
3. demonstrate effective professional practices in research, analysis, and communication;
4. demonstrate a commitment to critical appraisal of global literature.

These goals are aligned with the University's mission of providing high quality education, scholarship, and service to qualified students for the benefit of regional, state, national, and international constituencies.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/english/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants must submit all application materials directly to the (http://www.shsu.edu/dept/graduate-admissions/prospective-students.html)Office of Graduate Admissions by the relevant deadline (see below). A holistic review of each applicant's file will then be completed with admission to the MA in English program offered to applicants on a competitive basis. Applications are reviewed on a rolling basis in accordance with these deadlines:

Fall semester: August 1st
Spring semester: December 1st
Summer semester: May 15th

Please, note incomplete applications will not be reviewed; applicants should confirm with Graduate Admissions that their applications are complete before the application deadlines.

Students seeking admission to the Master of Arts in English program must submit online through ApplyTexas the following materials directly to the Office of Graduate Admissions: (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html)

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): the Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): an application fee is required for all applications to graduate programs at SHSU.
3. Statement of purpose: a summary of the applicant's academic or professional goals, how an MA degree will help the applicant obtain their academic or professional goals, and how the applicant's academic and possibly professional experiences have prepared them for the MA program. The statement should be no more than two single-spaced pages.
4. Transcripts documenting all prior degrees.* (Note: applicants are expected to have completed at least twelve hours of upper-division English courses with a 3.0 GPA or better; students with credentials from foreign universities must have their transcripts reviewed by a transcript evaluation service.)
5. Letters of recommendation: applicants must submit at least two but no more than four letters. The letters should discuss the applicant's potential for success in an English graduate program.
6. A scholarly/critical writing sample: a demonstration of the applicant's ability to analyze literary texts and present critical research. The sample should be a minimum of ten pages double-spaced.
7. **International applicants ONLY**: official TOEFL scores.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

- To earn the MA in English, students must complete a minimum of thirty-six hours of graduate credit in accordance with one of two degree plans (thesis plan or non-thesis plan).
- Students may apply six hours of creative writing or technical writing courses to the MA.
- **Thesis plan**: A student takes thirty-six hours of graduate coursework, twenty-four hours of which must be in English, including a six-hour MA thesis (ENGL 6098 and ENGL 6099). The student must take the required core courses, ENGL 5301 and ENGL 5302, at the first opportunity; three additional ENGL 5000-level courses; ENGL 6098 and ENGL 6099; one additional ENGL 6000-level course; and twelve hours of additional graduate course work. Students must be enrolled in the University for the terms in which they complete and defend their thesis. Students must successfully defend their thesis.

- **Non-thesis plan**: A student takes thirty-six hours of graduate coursework, twenty-four hours of which must be in English. The student must take the required core courses, ENGL 5301 and ENGL 5302 at the first opportunity; three additional ENGL 5000-level courses; three ENGL 6000-level courses; and twelve hours of additional graduate course work. Students must successfully complete the graduate comprehensive exam (which includes a presentation of graduate research). Students must be enrolled in the University for the term in which they complete the graduate comprehensive exam.
- Before beginning work on a thesis, undertaking a directed study, or taking the oral examination (graduate research presentation), the student must have completed at least twelve hours of graduate English coursework at Sam Houston State University, including ENGL 5301 and ENGL 5302, and be in good standing.
- After taking ENGL 5301 and ENGL 5302, all MA students must participate in scholarly professional activities such as conferences and publications.
- A student may take ENGL 5312 twice, with approval of the Department Chair.

A graduate student in English may pursue one of two degree plans. Plan 1 requires a thesis; Plan 2 does not require a thesis.

Plan 1 – MA in English

This degree plan is designed for students who plan to continue their studies at a doctoral level and for teachers of high school English who wish to increase scope, depth, and expertise in their teaching specialties. Under Plan 1 the student must write a thesis. Under this plan, students take thirty hours of coursework and six hours of thesis.

Code	Title	Hours
Master of Arts in English - Thesis		
Program Core		
ENGL 5301	Graduate Research: Methods and Theories	3
ENGL 5302	Literary Theory	3
ENGL 6098	MA Thesis I	3
ENGL 6099	MA Thesis II	3
Program Electives (At least 3 hours must be at the 6000 level; 6 hours may be taken outside of the department with the approval of the Chair)		**24**
ENGL 5304	English Linguistics	
ENGL 5303	History of the Development of the English Language	
ENGL 5306	American Literature: Pre-Civil War	
ENGL 5307	American Literature: Post-Civil War	
ENGL 5308	United States Ethnic Literatures	
ENGL 5309	British Literature: Pre-Industrial	
ENGL 5310	British Literature: Post-Industrial	
ENGL 5311	Anglophone Literature	
ENGL 5312	Directed Study	
ENGL 5313	Studies in Technical Communication	
ENGL 5331	Creative Writing: Fiction	
ENGL 5332	Creative Writing: Poetry	
ENGL 5333	Practicum: Editing and Publishing	
ENGL 5334	Creative Writing: Nonfiction	
ENGL 5335	Workshop In Teaching Writing	
ENGL 5336	Narrative Theory	
ENGL 5337	Poetic Theory and Prosody	
ENGL 5338	Creative Writing Pedagogy	
ENGL 5367	Practicum in Teaching College Composition	
ENGL 5384	Rhetoric & Composition Theory	
ENGL 5374	Gender, Sexuality & Literature	
ENGL 6301	Literary Theory Seminar	
ENGL 6302	Seminar in Major Author	
ENGL 6303	English Linguistics Seminar	
ENGL 6304	Literary Movements Seminar	
ENGL 6305	Literary Genre Seminar	
ENGL 6306	Global Ethnic Literatures	
ENGL 6330	Special Topics in English	

TCOM 5310	Technical & Professional Writing	
Total Hours		**36**

Plan 2 – MA in English (Non-thesis)

This degree plan is designed for students who plan to continue their studies at a doctoral level and for teachers of high school English who wish to increase scope, depth, and expertise in their teaching specialties. Under Plan 2 the student does not write a thesis. Under this plan, students take thirty-six hours of coursework.

Code	Title	Hours
Master of Arts in English - Non-Thesis		
Program Core		
ENGL 5301	Graduate Research: Methods and Theories	3
ENGL 5302	Literary Theory	3
Program Electives (At least 9 hours must be at the 6000 level; 6 hours may be taken outside of the department with the approval of the Chair)		**30**
ENGL 5303	History of the Development of the English Language	
ENGL 5304	English Linguistics	
ENGL 5306	American Literature: Pre-Civil War	
ENGL 5307	American Literature: Post-Civil War	
ENGL 5308	United States Ethnic Literatures	
ENGL 5309	British Literature: Pre-Industrial	
ENGL 5310	British Literature: Post-Industrial	
ENGL 5311	Anglophone Literature	
ENGL 5312	Directed Study	
ENGL 5313	Studies in Technical Communication	
ENGL 5331	Creative Writing: Fiction	
ENGL 5332	Creative Writing: Poetry	
ENGL 5333	Practicum: Editing and Publishing	
ENGL 5334	Creative Writing: Nonfiction	
ENGL 5335	Workshop In Teaching Writing	
ENGL 5336	Narrative Theory	
ENGL 5337	Poetic Theory and Prosody	
ENGL 5338	Creative Writing Pedagogy	
ENGL 5367	Practicum in Teaching College Composition	
ENGL 5374	Gender, Sexuality & Literature	
ENGL 5384	Rhetoric & Composition Theory	
ENGL 6301	Literary Theory Seminar	
ENGL 6302	Seminar in Major Author	
ENGL 6303	English Linguistics Seminar	
ENGL 6304	Literary Movements Seminar	
ENGL 6305	Literary Genre Seminar	
ENGL 6306	Global Ethnic Literatures	
ENGL 6330	Special Topics in English	
TCOM 5310	Technical & Professional Writing	
Total Hours		**36**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in English is designed to provide graduates with the following marketable skills:

- Think critically across disciplines.
- Communicate effectively through writing and oral communication.
- Conduct and interpret various modes of research.

Master of Arts in Technical Communication

The Master of Arts in Technical Communication equips students with the theory and practical skills to communicate complex information efficiently and effectively. This program is designed for multiple types of students:

- Those seeking careers or pursuing doctoral studies in technical communication.
- Established professionals from other fields seeking graduate-level development to enhance their skill-set and increase their value within their areas of expertise (including medical, industrial, and managerial).

Students in this program learn to analyze writing situations, design documents for print and digital media, produce texts for a variety of audiences, and manage large documentation projects. Technical communicators frequently consult with varied industries or find employment in medicine, petroleum/engineering, software/web development, or other fields that require superior communication skills.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/technical-communication/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students applying for admission to the Master of Arts in Technical Communication should submit the following materials to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application (https://www.shsu.edu/admissions/apply-texas.html): the Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee: (https://www.shsu.edu/dept/graduate-admissions/application-fee.html) An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.*
4. Expected undergraduate GPA of 3.0 or higher in the undergraduate major. Applicants with a GPA of less than 3.0 in the undergraduate major are encouraged to submit additional information (e.g., GRE scores, a narrative explaining why the GPA isn't indicative of the applicant's academic/professional potential, etc.) to support consideration for admittance.
5. 3 references: Provide a reference sheet containing the name, organization, job title, phone, and email address for each of 3 references.
6. A personal statement of intent (750–1000 words) explaining the applicant's perceptions of technical communication and thoughts about how the M.A. in Technical Communication might apply to the applicant's professional goals.
7. Résumé

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

The Admissions Committee will review applications for completeness before conducting a holistic review for competitive admission to the program. Incomplete applications will not be reviewed.

Code	Title	Hours
Master of Arts in Technical Communication		
Required Courses		
TCOM 5310	Technical & Professional Writing	3
TCOM 5330	Technical Style and Editing	3
TCOM 5380	Document Design	3
TCOM 5395	Internship and Practicum	3
TCOM 6301	Technical Communication Portfolio I	3
TCOM 6302	Technical Communication Portfolio II	3
Select Six of the Following		**18**
TCOM 5099	Writing in the Field	
TCOM 5320	Managing Digital Documentation	
TCOM 5340	Digital Literacies	
TCOM 5350	Writing Grants and Proposals	
TCOM 5360	Ethics in Professional Writing	
TCOM 5370	Intercultural Technical Communication	
TCOM 5385	User Experience Research and Design	
TCOM 5390	Teaching Technical Communication	
ENGL 5384	Rhetoric & Composition Theory	
Total Hours		**36**

Note: The portfolio review takes the place of comprehensive exam requirements.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Technical Communication is designed to provide graduates with the following marketable skills:

- Content creation and management.
- Process development and documentation.
- Usability research and development.
- Proposal and grant writing.
- Document and interface design.

Graduate Certificate in English

To teach college-level, dual-credit classes in the State of Texas, high school teachers must hold a graduate degree (Master's or PhD) and have eighteen graduate hours (six courses) in the teaching field. The English teaching certificate program gives students who hold graduate degrees in fields other than English graduate training designed to enhance students' ability to teaching dual-credit and community college courses.

The dual credit teaching certificate program allows students to

- work with specialists in literature, rhetoric, and writing disciplines;
- complete the eighteen-hour program completely online; and,
- apply all 18 hours of the certificate to the full MA degree in English at Sam Houston State University.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/english/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students applying for the Graduate Certificate in English at Sam Houston State University must submit the following materials to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application: (http://www.shsu.edu/admissions/apply-texas.html) The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting the conferral of an undergraduate degree and conferral of a graduate degree from accredited institutions* (graduate GPA of 3.4 or higher is expected);
4. A letter of purpose stating your professional intentions for applying to the certificate program and discussing your teaching career, works of literature you have taught, and your approach to teaching them.

Application Deadlines
For Summer admission: May 1
For Fall admission: August 1
For Spring admission: December 1

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts

Application for MA Degree Program
Students who are accepted into the Graduate Certificate in English and later wish to apply to the MA in English program will be required to submit additional materials related to the MA application process in effect at the time of their application.

Students enrolled in the MA in English may complete the Graduate Certificate in English as part of the MA degree plan. Students who enroll only in the certificate, may (if accepted for degree candidacy) apply the 18 hours of graduate English credit earned in the certificate program to the MA degree.

SHSU requires that a student complete a graduate degree within six years of matriculation. A certificate student who subsequently pursues the MA in English has six years to complete the degree from the first term of enrollment in the certificate program.

Code	Title	Hours
Graduate Certificate in English		
Required Courses		
ENGL 5335	Workshop In Teaching Writing	3
ENGL 5384	Rhetoric & Composition Theory	3
ENGL 5313	Studies in Technical Communication	3
Three courses selected from the following: [1]		**9**
ENGL 5301	Graduate Research: Methods and Theories	
ENGL 5302	Literary Theory	
ENGL 5306	American Literature: Pre-Civil War	
ENGL 5307	American Literature: Post-Civil War	
ENGL 5308	United States Ethnic Literatures	
ENGL 5309	British Literature: Pre-Industrial [1]	
ENGL 5310	British Literature: Post-Industrial [1]	
ENGL 5311	Anglophone Literature [1]	
ENGL 5374	Gender, Sexuality & Literature	
Total Hours		**18**

[1] One course must be ENGL 5309, ENGL 5310, or ENGL 5311.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in English is designed to provide graduates with the following marketable skills:

- Provides the credentials for teaching college credit bearing English courses for dual credit or community colleges.
- Improves writing skills.
- Gives students practice in analysis of written and multimodal texts.

Department of History

About

Chair: Dr. (Bmj018@shsu.edu) Brian Jordan

Contact Information
(936) 294-4460
AB4 Room 441

Website: Department of History (http://www.shsu.edu/academics/history/)

Mission

The Department of History prepares students to learn about and analyze historical events; evaluate change over time; assess complex forces at work in the past; and learn how, in written and oral expression, to explain these various phenomena. In doing so, the department prepares students for any career requiring critical thinking and analytical skills. The Department of History is a vehicle—through teaching, research and service—for exploring the past on its own terms.

- Master of Arts in History (p. 1673)
- Graduate Certificate in American History (p. 1676)
- Master of Arts in History and Political Studies (p. 1710)

Director/Chair: **Brian Matthew Jordan**

Nancy E Baker, PHD (neb001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Harvard University; AM, Harvard University; MA, George Washington University; BA, Rutgers University

Jadwiga M Biskupska, PHD (jxb074@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Yale University; MA, Yale University; MA, Yale University; BA, Cornell University

Scottie H Buehler, PHD (scottiecpm@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Calif-Los Angeles; MA, Univ of Calif-Los Angeles; BA, Univ of Texas At Austin

Thomas H Cox, PHD (thc001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, University at Buffalo, Suny; MA, University at Buffalo, Suny; BA, Birmingham-Southern College; BS, Birmingham-Southern College; BS, Birmingham-Southern College

Nicholas Crawford, PHD (nxc082@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Harvard University; MA, Harvard University; BA, New York University

Zachary A Doleshal, PHD (zad007@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of New Mexico

Lei Duan, PHD (lxd042@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Syracuse University; MPHIL, Syracuse University; MA, Univ of Massachusetts-Amherst; BA, Nankai University

Mevhibe Pinar Emiralioglu, PHD (mpe005@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Chicago; MA, Univ of Chicago; MA, Bilkent University; BA, Bogazici University

Joshua S Haynes, PHD (jsh064@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Georgia; MA, Univ of Mississippi; BA, Tulane University

Charles Victor Heath, PHD (cvh003@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Tulane University; MA, Tulane University; BA, Tulane University

Kenneth E Hendrickson, PHD (his_keh@shsu.edu), *Dean of Graduate Studies, Professor of History*, *Department of History*, PHD, University of Iowa; MA, Texas A&M University; BA, Texas A&M University

Aaron David Hyams, PHD (adh061@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Marquette University; MA, Univ of Montana-Missoula; BA, Marquette University

Brian Matthew Jordan, PHD (bmj018@shsu.edu), *Associate Professor and Chair of History*, *Department of History*, PHD, Yale University; MA, Yale University; MPHIL, Yale University; BA, Gettysburg College

Jeffrey L Littlejohn, PHD (jll004@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Arkansas-Fayetteville; MA, Univ of Arkansas-Fayetteville; BA, Belmont University

David C Mayes, PHD (his_dcm@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Wisconsin-Madison; MA, Univ of Richmond; BA, Univ of Richmond

Benjamin E Park, PHD (bep013@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Cambridge; MPHIL, Univ of Cambridge; MS, Univ of Edinburgh; BA, Brigham Young University; BA, Brigham Young University

Bernadette Pruitt, PHD (his_bxp@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Houston-Main; MA, Texas Southern University; BA, Texas Southern University

Uzma Quraishi, PHD (uxq001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Rice University; MA, Rice University; MA, Univ of Houston-Main; BA, Univ of Houston-Main; BA, Univ of Houston-Main

Stephen H Rapp, PHD (srapp@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Michigan; MA, Univ of Michigan; BA, Indiana University

Master of Arts in History

The Master of Arts in History program at Sam Houston State University prepares students to critically analyze historical events; to assess major interpretive problems and historiographical debates; to weigh and interpret conflicting evidence; to evaluate change over time; to acknowledge the complexities and contingencies of the past; and to appreciate the texture and diversity of human experiences. Students who complete the MA in History degree should be able to make and sustain an historical argument in professional prose; to position those arguments in larger interpretive frameworks; to evaluate the merits of an historical argument; and to pose good questions, both about the past and their own particular moment. Courses are delivered online and asynchronously, but small class sizes ensure that students have ample opportunities for engagement with their instructional faculty. This degree prepares students who wish to pursue a doctoral degree in the discipline or who wish to gain certification to teach dual-credit or two-year college courses in History. The program also serves general interest learners who wish to enrich their understanding of the past.

To organize their coursework, students select one of the following thematic tracks, each of which represent mainstays of the human experience. Each track transcends time and space, inviting students to ask thematic questions and to build connections between courses and historiographies.

Rights & Identity: Students explore how individuals and collectives have defined themselves at different times and places around the world. Students will examine how such matters as social order, race, ethnicity, religion, gender, sexuality, national origins, and other factors have shaped personal identity and group consciousness. In addition, classes in this track will explore how custom, rights, citizenship, and belonging have been negotiated and contested by various states and non-state actors around the world.

War & Violence: War and violence have been mainstays of human history. Students examine how various societies throughout history have experienced, conducted, and remembered military conflict, mass killing, and genocide. How has the conduct of war changed over time? What are the human, emotional, and cultural consequences of war? When and why do societies resort to armed conflict?

Encounters & Exchanges: Students examine the themes of encounter and exchange throughout history. Cross-cultural encounters have been central to the human experience since antiquity and have sometimes manifested themselves on the large scale, as is evident with the Silk Roads, the Atlantic Slave Trade, and, most recently, globalization. Trade, missionary activity, and imperialism are other avenues by which the world's diverse peoples have interacted.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/history/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the MA in History must meet the following requirements and submit all documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application (https://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.*
4. Two letters of recommendation that discuss the applicant's academic and professional potential.
5. Statement of Intent: Applicants should submit a written statement explaining why they wish to pursue an MA in History; how their educational background or work experience has prepared them to undertake a graduate degree in history; and what they plan to do professionally with the degree.
6. An academic writing sample demonstrating the applicant's ability to advance an argument in professional prose.
7. Completion of at least eighteen semester credit hours in history at the undergraduate level. Courses from other disciplines may be counted toward this requirement if they had a strong historical focus.

Applicants may submit additional information about relevant coursework with their application file.

Applicants who have not completed eighteen semester credit hours in history may be probationally accepted to the program after a holistic review of their application file.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Applicants must submit all application materials directly to the Office of Graduate Admissions. A holistic review of each applicant's file will then be completed, with admission to the MA in History program offered to applicants on a competitive basis. The department considers applications on a rolling basis; students may elect to begin their studies in the spring, summer, or fall semesters.

Note: Incomplete applications will not be considered.

Code	Title	Hours
Master of Arts in History (Thesis)		
Required Courses		
HIST 5301	Methods in History	3
HIST 6098	Thesis I [1]	3
HIST 6099	Thesis II [1]	3
Track Core Courses [2]		**15**
General Electives [3]		**6**
Total Hours		**30**

1 Thesis must be prepared on a subject within the student's thematic track.
2 See History Track listing below.
3 Complete any two graduate history courses outside of track.

Code	Title	Hours
Master of Arts in History (Non-Thesis)		
Specified Courses		
HIST 5301	Methods in History	3
HIST 6394	Seminar in History	3
Track Core Courses [1]		**15**
Track Electives [1]		**6**
General Electives [2]		**9**
Total Hours		**36**

1 See History Track course listings below.
2 Complete any three graduate history courses outside of track.

History Tracks

Code	Title	Hours
Encounters and Exchanges		
Core Courses		
HIST 5307	Intellectual History	3
HIST 5320	Mesoamerican Civilizations	3
HIST 5321	American Immigration History	3
HIST 5370	Colonial America	3
HIST 5381	World Historiography	3
HIST 5384	Texas History	3
HIST 5385	Latin American History	3
HIST 5396	Cross-Cultural Interactions	3
Elective Courses		
HIST 5322	Debates in Global Migration	3
HIST 5342	The Japanese Colonial Empire	3
HIST 5359	The Audible Past	3
HIST 5360	African Environmental History	3
HIST 5362	Seminar in American Environmental History	3
HIST 5375	Recent America, 1876-1933	3
HIST 5388	Public History	3

Code	Title	Hours
Rights and Identity		
Core Courses		
HIST 5340	Recent African-American History	3
HIST 5372	Early National America	3

HIST 5376	Contemporary America, 1933-Present	3
HIST 5378	American Cultural and Religious History	3
HIST 5380	American Historiography	3
HIST 5382	Topics In the History Of Women	3
HIST 5386	African American Civil Rights	3
HIST 5394	Early Modern Europe	3
HIST 5395	Later Modern Europe	3
Elective Courses		
HIST 5321	American Immigration History	3
HIST 5322	Debates in Global Migration	3
HIST 5353	Legacies of the Reformations	3
HIST 5362	Seminar in American Environmental History	3
HIST 5371	Revolutionary America	3
HIST 5374	Seminar in the History of the American South	3
HIST 5375	Recent America, 1876-1933	3
HIST 5389	Great Britain and the British Empire	3

Code	Title	Hours
War and Violence		
Core Courses		
HIST 5338	Empires in World History	3
HIST 5342	The Japanese Colonial Empire	3
HIST 5351	Early Medieval Europe	3
HIST 5355	Holocaust & Genocide	3
HIST 5363	Seminar In Military History	3
HIST 5364	Seminar in War & Violence	3
HIST 5367	World War II	3
HIST 5369	Violence and the State in East Asia	3
HIST 5373	United States Civil War	3
HIST 5377	The American West	3
HIST 5383	United States Diplomatic History	3
HIST 5392	The Ottoman Empire, 1300-1922	3
HIST 5393	European Diplomatic History	3
Elective Courses		
HIST 5333	Pre-Modern World History	3
HIST 5336	Pre-Modern European History	3
HIST 5352	High and Late Medieval Europe	3
HIST 5365	Film and War in America	3
HIST 5366	The Reconstruction Era	3
HIST 5368	Britain's Modern Wars, 1899 to the Present	3
HIST 5371	Revolutionary America	3
HIST 5374	Seminar in the History of the American South	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in History is designed to provide graduates with the following marketable skills:

- Engage effectively in regional, national, and global communities while promoting civil discourse and civic participation.
- Express ideas in written, oral, and visual communication.
- Think critically and analytically.
- Evaluate and interpret textual and non-textual evidence/sources of information.
- Build an informed belief system by synthesizing knowledge and posing questions about different societies and cultures.

Graduate Certificate in American History

The 18-hour certificate program in American history will prepare graduate students to read, analyze, and write about the past in a way that is meaningful today. In keeping with this philosophy, the program will offer a unique experience, which allows students to participate in graduate education through online classes. Students in the program will find a broad-based education incorporating in-depth studies of American history, immersion in the latest historiographical theories, and training in advanced research methods.

The 18-hour graduate certificate program in history will allow secondary school teachers who already hold a master's degree in another field to earn the credentials needed to teach courses for joint high school and college credit.

Through this program teachers will be able to:

- Work with leading scholars from SHSU's faculty members in history;
- Complete the 18-hour program completely online from their homes or offices;
- Finish the 18-hour program in a single year;
- Apply coursework from this 18-hour program to a full MA degree in history at SHSU.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/american-history/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Graduate Certificate in American History submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application: (https://www.shsu.edu/admissions/apply-texas.html) The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Possession of undergraduate and master's degrees from accredited institutions.
4. Transcripts documenting all prior degrees.*
5. Two letters of recommendation that discuss the applicant's academic and professional potential.
6. An academic writing sample demonstrating the applicant's ability to advance an argument in professional prose.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Note: Incomplete applications will not be considered.

Select six of the following twelve courses for the 18 hour Graduate Certificate in American History.

Code	Title	Hours
Graduate Certificate in American History		
Specified Courses		
Select six of the following:		18
HIST 5321	American Immigration History	
HIST 5340	Recent African-American History	
HIST 5362	Seminar in American Environmental History	
HIST 5365	Film and War in America	
HIST 5366	The Reconstruction Era	
HIST 5370	Colonial America	
HIST 5371	Revolutionary America	
HIST 5372	Early National America	
HIST 5373	United States Civil War	
HIST 5374	Seminar in the History of the American South	
HIST 5375	Recent America, 1876-1933	
HIST 5376	Contemporary America, 1933-Present	
HIST 5377	The American West	
HIST 5378	American Cultural and Religious History	

HIST 5380	American Historiography
HIST 5388	Public History
HIST 5382	Topics In the History Of Women
HIST 5383	United States Diplomatic History
HIST 5384	Texas History
HIST 5386	African American Civil Rights
Total Hours	**18**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in American History is designed to provide graduates with the following marketable skills:

- Express ideas in oral and written communication.
- Analyze historical arguments and engage in interpretive debates.
- Assess how scholarly conversations have changed over time.
- Locate, find, and evaluate historical evidence.
- Gain an appreciation for the texture and diversity of human experiences.

Department of Political Science

Chair: Jason Enia, Ph.D. (jason.enia@shsu.edu)

Department Contact Information

(936) 294-1457
CHSS Building 490
polsci@shsu.edu

Graduate Director Contact Information
Master of Arts in Political Science
Dr. Jonathan Brown (jnb047@SHSU.EDU)

18-hour Graduate Certificate in Political Science
Dr. Jonathan Brown (jnb047@SHSU.EDU)

Master of Arts in History and Political Studies
Dr. Jonathan Brown (jnb047@SHSU.EDU)

Masters of Public Administration
Dr. Fatih Demiroz (fxd009@SHSU.EDU)

Website: Department of Political Science (http://www.shsu.edu/academics/political-science/)

About

The Department of Political Science offers three graduate programs: Master of Arts in Political Science, Masters of Public Administration, and Master of Arts in History and Political Studies (a joint program with the History Department). The department also offers an 18-hour Graduate Certificate in Political Science. All graduate programs are offered fully online. Courses are offered summer, fall, and spring.

Mission

The mission of the Department of Political Science is to provide students with theoretical knowledge and understanding of core concepts and principles in political science and public administration and to help students develop the skills and experience necessary for professional careers in the 21st century.

- Master of Arts in Political Science (p. 1680)
- Master of Public Administration (M.P.A.) (p. 1681)
- Master of Arts in History and Political Studies (with Department of History) (http://catalog.shsu.edu/graduate-and-professional/college-departments/humanities-social-sciences/history-and-political-studies-ma/)
- Graduate Certificate in Political Science (p. 1683)

Director/Chair: **Jason S Enia**

Aisha Saratu Ahmadu, PHD (asa059@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Mississippi State University; MBA, New Mexico State University; BA, Midwestern State University

Robin M Bittick, PHD (rmb004@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Claremont Grad Sch; MPA, California St Un-Dominguez Hil; BS, California St Un-Dominguez Hil

Jonathan Nathan Brown, PHD (jnb047@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Indiana University

Rhonda L Callaway, PHD (rlc005@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Univ of North Texas; MA, Univ of North Texas; BA, Univ of Texas At Austin

Fatih Demiroz, PHD (fxd009@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Central Florida; MPA, Univ of Central Florida; BA, Yeditepe University

John C Domino, PHD (pol_jcd@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Miami University; MA, Eastern Kentucky University; BA, Florida-Atlantic U

Jason S Enia, PHD (jason.enia@shsu.edu), *Professor and Chair of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Fordham University; BA, Univ of Dayton; BA, Univ of Dayton

Max Katz Crook, PHD (mxk095@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Nottingham

Masoud Kazemzadeh, PHD (mxk002@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Univ of Minnesota-Twin Cities

Rudy Leal McCormack, PHD (rudymc@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Colorado State University; MA, Florida Int'L Univ; BA, Florida Int'L Univ; BA, Florida Int'L Univ

Peiyao Li, PHD (pxl043@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; MPA, Wuhan University

Sungdae Lim, PHD (slim@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Florida State University; MPA, Florida State University; BPA, Soongsil University

Kenneth Bruce McIntyre, PHD (kbm014@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Tulane University; MS, University of Wales; MA, Tulane University; BA, Princeton University

Pablo Alberto Ortega Poveda, PHD (pao016@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; BA, Universidad Javeriana

Christopher Francis Patane, PHD (cfp009@shsu.edu), *Senior Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Missouri-Columbia; MA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia

Eric P Svensen, PHD (eps007@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, San Diego City Coll

Stacy Gwenn Ulbig, PHD (sgu001@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Rice University; MA, Rice University; BA, Univ of St Thomas

Tamara A. Waggener, PHD (pol_taw@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; BA, Cal Poly St-Pomona

WenJiun Wang, PHD (wjwang@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, University of Pittsburgh; MA, National Taipei University; BA, National Taipei University; BBA, National Taipei University

Lu-Chung Weng, PHD (dennis.weng@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Dallas; MA, Univ of Texas At Dallas; MA, Tamkang College; BBA, Tamkang College

Master of Arts in Political Science

The Master of Arts in Political Science is an online degree program designed for both recent college graduates and individuals seeking to advance their professional or academic careers. The program serves students preparing for doctoral studies or law school, high school teachers seeking to improve their professional credentials, individuals wanting to teach in the community colleges, and individuals preparing for careers or advancement in nonprofit organizations (international and domestic) and the public sector.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/political-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students are admitted to the graduate program for the Fall, Spring, and Summer semesters, with the following application deadlines:

Fall semester enrollment: August 1
Spring semester enrollment: December 1
Summer enrollment: May 15

Admission into the program is based on the listed requirements and faculty/student ratios. The following are required for admissions consideration:

1. Graduate Studies Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Studies Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee: An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.*
4. Minimum undergraduate GPA of 3.0: Applicants who do not possess a graduate degree from an accredited institution are expected to have earned a minimum GPA of 3.0 in an undergraduate degree from an accredited institution. However, applicants who possess neither a graduate degree nor a minimum undergraduate GPA of 3.0 may submit additional information as evidence of their academic and professional potential. Such additional information may include, but is not limited to: GRE scores, an academic writing sample, a narrative that provides an explanation for the applicant's low GPA and for why the GPA is not indicative of the applicant's academic and professional potential, etc.
5. Statement of Intent: Applicants should submit a written statement that specifically addresses at least the following three elements: a) why they are applying to the program; b) how their experience (academic, work, etc.) has prepared them to enter the program; and c) what they plan to do – professionally – with the degree.
6. A current resume or curriculum vitae.
7. Names and contact information for at least two individuals who can speak to applicant's academic and professional potential.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Applicants must submit all application materials directly to the Office of Graduate Studies (http://www.shsu.edu/dept/graduate-admissions/prospective-students.html) by the relevant deadline. A holistic review of each applicant's file will then be completed, with admission to the MA Program offered to applicants on a competitive basis.

Incomplete applications will not be considered.

The program entails 36 hours of coursework. All students are required to take four overview courses—on (1) Political Science as an academic discipline and on its main subfields of (2) American Politics, (3) Comparative Politics, and (4) International Relations—and one capstone course. Alongside those five requirements, which account for fifteen credit hours, students can choose any seven other POLS graduate courses as electives that best suit their academic interests and professional goals. With graduate advisor approval, students may satisfy some of their elective credit hours by pursuing an informal concentration in a relevant area from one or more other departments or graduate programs.

Code	Title	Hours
Master of Arts in Political Science		
Specified Courses		
POLS 5301	Scope & Methods of Political Science	3
POLS 5330	American Politics	3
POLS 5371	Comparative Politics	3
POLS 5373	International Relations	3
POLS 6394	Capstone	3
Prescribed Electives: POLS		

Select seven additional POLS graduate courses	21
Total Hours	**36**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Political Science is designed to provide graduates with the following marketable skills:

- Analytical and writing skills.
- Incorporate technology to solve problems and accomplish goals.
- Prepare students for professional careers in the 21st century.
- Prepare students to make meaningful contributions to local, state, national, and global communities.

Master of Public Administration (M.P.A.)

The Master of Public Administration program is an online degree program designed to empower those seeking a career in public service as well as those already employed who desire to enhance their current career trajectory. The program prepares professionals for work in government at the local, state, or national level as well as nonprofit organizations. Those in the private sector may also find the curriculum valuable.

The MPA degree requires a total of 36 hours of coursework:

- 18 hours of core coursework; and
- 18 hours of concentration coursework.

Students with substantial professional and administrative experience may be eligible to earn 3 internship credits based on their work experience. Requests for such credit will be reviewed and approved by the MPA Program Director.

Prior to graduation, all students must also complete and pass the comprehensive exams, which encompass key learning objectives from the core coursework. Students are expected to complete all core coursework prior to taking the comprehensive exams. Students with one core course remaining may take the comprehensive exams with the approval of the MPA Director. Comprehensive exams are administered during the fall, spring, and summer semesters. Students must be enrolled in the university during the semester or summer session in which the comprehensive exams are administered.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/public-administration/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the online Master of Public Administration (MPA) Program are reviewed on a rolling basis, with application deadlines of: August 1st for the fall semester; December 1st for the spring semester; and May 15th for the summer semester. The MPA Program's admission considerations include the following:

1. Graduate Admissions Application (https://www.applytexas.org/adappc/gen/c_start.WBX): The Graduate Studies Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application Fee (http://www.shsu.edu/~grs_www/ApplicationFee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.[1]
4. A current resume or curriculum vitae.
5. A writing sample of scholarly or professional work.
6. A statement of interest that summarizes the applicant's professional goals, how an MPA degree will help the applicant obtain their professional goals, and how the applicant's personal and professional experiences have prepared them for the MPA program. The statement of interest should be between one and two single-spaced pages.
7. Names and contact information for at least two individuals who can speak to applicant's academic and professional potential.
8. Applicants who do not possess a graduate degree from an accredited institution, are expected to have earned a minimum undergraduate GPA of 3.0 from the accredited institution granting the undergraduate degree.
9. Applicants who do not possess a graduate degree and have an undergraduate GPA below 3.0 may submit additional information as evidence of their academic and professional potential. Additional information may include, but is not limited to: a narrative that provides an explanation for the applicant's low GPA and why the GPA is not indicative of the applicant's academic and professional potential or GRE scores. Applicants can submit the GPA narrative as part of their statement of interest.
10. If the MPA Admissions Committee needs additional information for an admission decision, the MPA Admissions Committee Chair may schedule an interview with an applicant or request an applicant provide additional information via email.

Applicants must submit all application materials directly to the Office of Graduate Studies (http://www.shsu.edu/dept/graduate-admissions/prospective-students.html) by the relevant deadline. A holistic review of each applicant's file will then be completed with admission to the MPA Program offered to applicants on a competitive basis.

[1] Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

MPA Core Courses

All MPA students must complete PADM 5301 and PADM 5302 and 4 other core courses, a total of 18 credits.

Code	Title	Hours
MPA Core Courses		
PADM 5001	Independent Study	3
PADM 5002	Public Service Internship	3
PADM 5301	Scope and Methods of Public Administration	3
PADM 5302	Dynamics of Public Administration	3
PADM 5310	Organizational Theory and Behavior	3
PADM 5311	Public Management	3
PADM 5312	Public Budgeting and Finance	3
PADM 5313	Human Resource Management	3
PADM 5314	Ethics in Government	3

MPA Concentration Courses

All MPA students must complete 9 credits of concentration courses. Select 9 credits from your preferred concentration.

Code	Title	Hours
Concentration Courses		
Emergency Management Concentration		
PADM 5001	Independent Study	3
PADM 5003	Disaster Management Internship	3
PADM 5315	Program Evaluation	3
PADM 5340	Emergency Management	3
PADM 5341	Decision Making in Public Administration	3
PADM 5342	Global Disaster Politics	3
PADM 5343	Disaster Resilience	3
PADM 5359	Special Topics in Disaster Management	3
PADM 5361	Managing Complex Policy Problems	3
Management Concentration		
PADM 5001	Independent Study	3
PADM 5002	Public Service Internship	3,6
PADM 5315	Program Evaluation	3
PADM 5319	Special Topics in Public Administration	3
PADM 5341	Decision Making in Public Administration	3
PADM 5361	Managing Complex Policy Problems	3
PADM 5362	Managing the Nonprofit Organization	3

MPA Elective Courses

Select 3 additional PADM courses (9 credits) that have not already applied to fulfill another program requirement.

MPA Degree Plan

All MPA students must complete 36 credits of courses to graduate. MPA students must complete and pass the comprehensive examinations to qualify for graduation. Students with substantial professional and administrative experience may be eligible to earn 3 internship credits based on their work experience. Requests for such credit will be reviewed and approved by the MPA Program Director.

Code	Title	Hours
MPA in Public Administration		
Required Core Courses		
Complete Both Courses:		
PADM 5301	Scope and Methods of Public Administration	3
PADM 5302	Dynamics of Public Administration	3
Prescribed Elective Core Courses		
Complete any four of the following:		12
PADM 5001	Independent Study	
PADM 5002	Public Service Internship [1]	
PADM 5310	Organizational Theory and Behavior	
PADM 5311	Public Management	
PADM 5312	Public Budgeting and Finance	
PADM 5313	Human Resource Management	
PADM 5314	Ethics in Government	
Concentration Courses		
Choose a concentration and take any three courses from your concentration (9 credits).		9
PADM 5003	Disaster Management Internship [1]	
PADM 5315	Program Evaluation	
PADM 5319	Special Topics in Public Administration [2]	
PADM 5340	Emergency Management	
PADM 5341	Decision Making in Public Administration	
PADM 5342	Global Disaster Politics	
PADM 5343	Disaster Resilience	
PADM 5359	Special Topics in Disaster Management [2]	
PADM 5361	Managing Complex Policy Problems	
PADM 5362	Managing the Nonprofit Organization	
Elective Courses		
Take any three PADM courses that have not already applied to fulfill another program requirement (9 credits).		9
Total Hours		**36**

1 Internships are not required; no more than 6 credit from PADM 5002 and PADM 5003 can apply to MPA degree plan.
2 Special topics courses are offered occasionally.

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The M.P.A. is designed to provide graduates with the following marketable skills:

- Develop students' analytical and writing skills.
- Develop students' ability to utilize technology to solve problems and accomplish goals.
- Prepare students for professional careers in the 21st century.
- Prepare students to make meaningful contributions to local, state, national, and global communities.

Graduate Certificate in Political Science

The Graduate Certificate in Political Science is designed for high school and community college instructors who wish to obtain 18 hours of graduate coursework relevant to key fields in the discipline of political science, such as the field of American Politics. Course offerings allow students to complete the certificate in one year if students take two courses per semester including summer.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/political-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Those wishing to pursue the certificate should hold a graduate degree from an accredited college or university and submit the following to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

- An application with accompanying application fee to the Sam Houston State University Office of Graduate Studies.
- Transcripts documenting all prior degrees.
- Names and contact information for at least two individuals who can speak to applicant's academic and professional potential.
- A letter of interest that specifically addresses at least the following three elements: a) why they are applying to the program; b) how their experience (academic, work, etc.) has prepared them to enter the program; and c) what they plan to do professionally after completing the program.
- A current resume or curriculum vitae.

Note: Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Code	Title	Hours
Graduate Certificate in Political Science		
Required Courses		**3**
POLS 5301	Scope & Methods of Political Science	
Students must take 15 hours from the following: [1]		**15**
POLS 5078	Problems in Political Science	
POLS 5319	Women in Politics	
POLS 5330	American Politics	
POLS 5332	State Governments, Policies, and Politics	
POLS 5334	Judicial Politics	
POLS 5336	The United States Presidency	
POLS 5337	The United States Congress	
POLS 5339	American Political Parties	
POLS 5340	Political Attitudes & Behavior	
POLS 5360	Seminar in American Politics	
POLS 5362	Seminar in Political Theory	
POLS 5364	Media & Politics	
POLS 5367	Seminar in International Relations	
POLS 5371	Comparative Politics	
POLS 5372	Seminar in Comparative Politics	
POLS 5373	International Relations	
POLS 5379	Workshop in Teaching Political Science	
POLS 5385	Public Policy	
Total Hours		**18**

[1] It is strongly recommended that students contact their employer, prior to registration, to request a credentialing review for elective courses.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Political Science is designed to provide graduates with the following marketable skills:

- Problem solving: Critical, analytical, and evaluative thinking.
- Communication: Professional expression of ideas through written, verbal, and visual work.
- Leadership: Effective engagement as professional educators in local, state, national, and global communities.

Department of Psychology and Philosophy

Interim Chair: Maria Botero (mbotero@shsu.edu), Ph.D.

Phone: (936) 294-3052

Website: Department of Psychology and Philosophy (http://www.shsu.edu/academics/psychology-and-philosophy/)

Mission

The Department of Psychology and Philosophy supports the Mission Statement of the University and that of the College of Humanities and Social Sciences. The Department is committed to providing a quality educational environment conducive to scholarship and the acquisition of knowledge and applicable skills. We recognize that this ideal requires the effective use of faculty expertise and creativity, a sensitivity to the needs of the university and to the community, and a genuine concern for the abilities and goals of students.

- Doctor of Philosophy in Clinical Psychology (p. 1687)
- Master of Arts in Clinical Psychology: Pre-Doctoral Track (p. 1690) (**Doctoral Students Only**)
- Master of Arts in Clinical Psychology (p. 1693)
- Master of Arts in Experimental Psychology (p. 1695)
- Specialist Degree in School Psychology (p. 1698)

Director/Chair: **Jorge G Varela**

Jeffrey S Anastasi, PHD (jsa001@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Suny At Binghamton

Jaime Lynn Anderson, PHD (jla068@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MS, Eastern Kentucky University; BA, Univ of Dayton; BA, Univ of Dayton

Janella Kay Baxter, PHD (jxb211@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Illinois-Chicago; MA, Univ of Colorado; BA, Seattle University

Marcus T Boccaccini, PHD (psy_mtb@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Univ of Santa Clara

Maria Del Pi Botero Jaramillo, PHD (mdb037@shsu.edu), *Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, York University; MA, York University; BA, Universidad Javeriana

Kiana Ellen Cano, PHD (kec112@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Univ of Houston-Main

Daniella Kelleigh Cash, PHD (dkc025@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, LSU & A&M College; MA, Univ of Alabama-Huntsville; BS, Florida Southern College

Mary A. Conroy, PHD (psy_mac@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Colorado State University; BA, Michigan State University

James William Crosby, PHD (jwc014@shsu.edu), *Professor of Psychology and Associate Dean CHSS*, *Department of Psychology & Philosophy*, PHD, Oklahoma State University; MS, Abilene Christian University; BS, Abilene Christian University

Charlotte Rebekah Esplin, PHD (cre032@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Brigham Young University; MS, Brigham Young University; BS, Brigham Young University

Craig E Henderson, PHD (ceh003@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of North Texas; MA, Hardin Simmons University; BS, Howard Payne University; BS, Howard Payne University

Hillary Anne Langley, PHD (hlangley@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of N Carolina-Chapel Hill; BA, Univ of N Carolina-Chapel Hill

Ryan J Marek, PHD (rxm147@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Kent State University; MA, Kent State University; BS, John Carroll University

Benjamin Mitchell-Yellin, PHD (bxm040@shsu.edu), *Adjunct Faculty*, *Department of Psychology & Philosophy*, PHD, Univ of Calif-Riverside; MA, Boston College; BA, Univ of Michigan

Adam P Natoli, PHD (apn017@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Adelphi University; MA, Adelphi University; MS, Eastern Michigan University; BA, Rider University

Ramona M Noland, PHD (psy_rmn@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Tennessee-Knoxville; BA, Wheeling College

Chelsea Gilts Ratcliff, PHD (chelsea.ratcliff@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Trinity University

Shelley Ann Riggs, PHD (sxr142@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of Texas At Austin; BA, Univ of Texas At Austin

Jared Robert Ruchensky, PHD (jrr107@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Texas A&M University; BA, Creighton University

Nicholas Leonard Scheel, PHD (nls046@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Wisconsin-Green Bay

George Herbert Scott, PHD (ghs003@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Ponce Health Sciences Univ; MS, Ponce Health Sciences Univ; BA, Liberty University

Jorge G Varela, PHD (jgv002@shsu.edu), *Professor of Psychology and Chair, Psychology and Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BA, Florida Int'L Univ

Stephen Walter White, PHD (sww012@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Mississippi; MA, Univ of Mississippi; BA, Univ of Mississippi

Mary Elizabeth Wood, PHD (mew095@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Kennesaw State University

Ph.D. in Clinical Psychology

The Clinical Psychology Ph.D. program seeks to train professionals with a broad knowledge of scientific psychology who will be skilled clinicians. The program's educational philosophy is to produce scientist/practitioners who possess expertise in both research and clinical practice. The department believes that experience in applied settings produces scientists who are sensitive to pragmatic issues and who are on the cutting edge of research questions essential to practitioners in the field. Conversely, clinicians who have been trained as scientists understand emerging research and incorporate new findings into their daily practice. The program uses a mentor model by which students are accepted to work with a particular member of the faculty for their degree-required research. All students are required to complete a dissertation and to be enrolled full-time. The demands of the program's training are not amenable to part-time or weekend course schedules. With limited exceptions, all coursework is offered in person.

Clinical psychology is the psychological science that seeks to understand, assess, and treat psychological disorders and conditions. SHSU clinical psychology students' published research has examined test development, personality assessment, psychopathology, gender and race/ethnicity issues, jury processes, and public policy, among other topics. Students' practicum experiences have involved work with serious mental illness (SMI), people with brain injuries, persons with a substance use disorder, adolescents, children and families, and persons in the legal system. Practicum settings have included a variety of inpatient and residential settings, private psychological practices, and correctional settings. In addition, the program operates its own Psychological Services Center where students provide services to a broad range of community clientele.

The doctoral program produces well-rounded clinical psychologists ready to work in a wide variety of clinical, research, and/or academic settings. Students receive rigorous training in the assessment, treatment, and prevention of psychopathology and physical health comorbidities in individuals across the lifespan. This training will take place in the form of research training and mentorship, didactic coursework, and clinical training. A broad selection of clinical practicum sites is available to support students in developing and refining their general clinical skills as well as skills tailored to work with specific populations or presentations corresponding to their future career goals.

Students in the Ph.D. program choose to participate in one of two emphasis areas that build on faculty strengths and departmental resources: forensic clinical or general clinical.

Forensic Clinical

The Forensic Clinical (FC) emphasis concentrates on preparing clinicians who can explain psychological phenomena to courts or administrative agencies, intervene with individuals and families at various junctures in the social and justice systems, and provide assessment and treatment for both victims and offenders. In addition to strong generalist training acquired by all students in the program, students who select this emphasis will complete forensically focused didactic coursework (for example, Forensic Assessment courses) and have the opportunity to participate in forensic evaluations for the courts. Students will engage in research training and mentorship in forensic arenas and have the opportunity to receive clinical training in forensically-oriented practicums that allow them to continue to develop their general clinical skills. Students will complete the program with the basic preparation they need to conduct legally-relevant clinical psychology research and pursue postdoctoral specialty training in either general clinical or forensic clinical psychology.

General Clinical

Students who chose to participate in the General Clinical (GC) emphasis will receive research, didactic, and clinical training that prepare them for diverse careers in clinical psychology. Regarding research training, faculty mentoring students in the GC emphasis have active programs of research related to the assessment, treatment, and prevention of psychopathology and physical health comorbidities in individuals across the lifespan. Students opting for the GC emphasis will select electives from a rich set of courses that align with their interests and career goals and receive clinical training in practicum sites focused on refining their general clinical skills as well as skills tailored to work with specific populations or presentations. Students will complete the program with the preparation they need to pursue postdoctoral training relevant to their research and clinical interests.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/clinical-psychology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the doctoral program in clinical psychology must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): An university application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.* Applicants are welcome to submit transcripts for coursework from additional institutions, though this is not necessary.
4. Program application with the fee.
5. A minimum of two letters of recommendation (three are preferred).
6. Personal Statement/Essay.
7. Current resume or curriculum vitae.

8. TOEFL score (if applicable).
9. **Optional:** GRE scores. (Please note that you are not required to submit GRE scores with your application.)

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

The application deadline is December 1, 2025.

The Doctoral Program seeks promising students from all backgrounds in the service of creating a diverse intellectual community. High test scores and grades do not guarantee acceptance, and students whose lower scores are offset by other exceptional qualifications may be admitted. New students may join the program with either a baccalaureate or a master's degree.

For application forms or further information, write, or call:

Clinical Psychology Ph.D. Program
Department of Psychology and Philosophy
Sam Houston State University
Box 2210
Huntsville, TX 77341-2210
Telephone: (936) 294-1210
E-mail: clinpsy@shsu.edu

Note: Incomplete applications will not be reviewed.

All formal requirements for completion of the Ph.D. are described in the Clinical Psychology Doctor of Philosophy Program Handbook and may vary from one student to another depending on previous academic preparation. The following guidelines are offered to demonstrate the nature of the doctoral program and should not be misconstrued as representing the formal requirements for the PhD:

1. A course of study that includes training in the discipline-specific knowledge of psychology, including research and quantitative methods; history and systems of psychology; and the affective, biological, cognitive, developmental, and social bases of behavior. Students are also trained in the profession-wide competencies associated with clinical psychology, which include research, ethical and legal standards, individual and cultural diversity, professional values and attitudes, communication and interpersonal skills, assessment, intervention, supervision, and consultation and interprofessional/interdisciplinary skills. This course of study is sequential, cumulative, graded in complexity, and designed to prepare students for entry-level practice and further organized training.
2. Enrollment as a full-time student (i.e., a minimum of 9 credit hours per semester) on campus for at least four consecutive long (i.e., Fall, Spring) semesters.
3. Earned grades of B or better in all classes. Please consult the Program Handbook for a more detailed description of policies regarding academic standards.
4. Completion with a passing score on a written comprehensive examination.
5. Completion and defense of a doctoral dissertation that is the product of original scholarly research and is of such quality as to represent a meaningful contribution to knowledge in the field of psychology.
6. Completion of a year-long pre-doctoral internship, during which the student works full-time in an applied clinical setting.
7. Completion of the degree within 6 years from the first semester of registration as a doctoral student (i.e., following completion of requirements for the master's degree).

Students entering with a master's degree in psychology and who have completed similar courses as part of their degree may have courses waived at the discretion of the Doctoral Program Faculty.

Code	Title	Hours
Ph.D. in Clinical Psychology		
Specified Courses		
PSYC 5330	Psychopathology	3
PSYC 5333	Theory and Research In Psychotherapy I	3
PSYC 5360	Advanced Physiological Psychology	3
PSYC 5387	Advanced Statistics	3
PSYC 5388	Experimental Design	3
PSYC 5392	History and Systems of Psychology	3
PSYC 5394	Psychometrics	3
PSYC 5395	Assessment of Intelligence and Achievement	3
PSYC 5396	Assessment of Personality and Psychopathology	3
PSYC 7330	Clinical Psychology Proseminar	3

PSYC 7336	Mental Health Law	3
PSYC 7339	Developmental Psychopathology	3
PSYC 7360	Multicultural Psychology	3
PSYC 7362	Ethics in Clinical Practice	3
PSYC 7370	Empirically Supported Treatments	3
PSYC 7377	Cognitive and Affective Bases of Behavior	3
PSYC 7378	Social and Developmental Bases of Behavior	3
PSYC 7387	Multivariate Statistics in Psychology	3
PSYC 8360	Forensic Assessment I (Or Restricted Elective) [1]	3
PSYC 8361	Forensic Assessment II (Or Restricted Elective) [1]	3
Restricted Electives		
Select two of the following:		6
PSYC 5035	Special Problems in Psychology	
PSYC 5334	Theory and Research In Psychotherapy II	
PSYC 5340	Evidence-Based Child Therapy	
PSYC 5361	Neuropsychopharmacology	
PSYC 5370	Academic Assessment and Consultation	
PSYC 5385	Advanced Health Psychology	
PSYC 5390	Teaching of Psychology	
PSYC 5396	Assessment of Personality and Psychopathology	
PSYC 5398	Advanced Child Assessment	
PSYC 6394	Practicum in Psychometrics	
PSYC 7333	Law and Social Psychology	
PSYC 7374	Human Neuropsychology	
PSYC 7388	Latent Variable Modeling	
PSYC 7392	Topics in Clinical Psychology	
Practica		
PSYC 8381	Beginning Doctoral Practicum	3
PSYC 8382	Doctoral Clinical Practicum I (Students must take 8382 three times for a total of 9 hours)	9
PSYC 8383	Doctoral Clinical Practicum II [2]	9
Internship		
PSYC 8110	Internship I	1
PSYC 8111	Internship II	1
PSYC 8112	Internship III	1
Thesis		
PSYC 6099	Thesis [3]	6
Dissertation		
PSYC 8099	Dissertation [4]	12
Total Hours		**108**

1 See list of Restricted Electives below. If 6 hours of Restricted Electives are taken in lieu of PSYC 8360 and PSYC 8361, these courses cannot be counted for the 6 hours of electives already required in the degree plan.

2 Students must take PSYC 8383 for a minimum of nine hours and until such time as they enroll in Internship PSYC 8110.

3 Once enrolled in PSYC 6099, students must enroll in this course every semester until the thesis route sheet is received by the Office of the Registrar.

4 Once enrolled in PSYC 8099, students must enroll in this course every semester until the dissertation route sheet is received by the Office of the Registrar.

Note: Doctoral students must earn a grade of B or above in all classes.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Ph.D. in Clinical Psychology is designed to provide graduates with the following marketable skills:

- Graduates will meet the educational requirements for licensure as a psychologist in Texas.
- As licensed psychologists, or while working under supervision, graduates will be able to provide comprehensive, multi-method psychological evaluations to answer a wide range of referral questions.
- As licensed psychologists or while working under the supervision, graduates will be able to provide psychotherapy services to diverse clients using empirically supported treatment techniques.
- Graduates will be competent to conduct psychological research, including developing research questions, designing empirical research, and using quantitative methods.

Master of Arts in Clinical Psychology: Pre-Doctoral

The MA in Clinical Psychology: Pre-Doctoral degree offers students the opportunity of earning their Masters degree on their way to earning the Ph.D. in Clinical Psychology. Please, note that this option is only available to students who have been admitted to Sam Houston State University as doctoral students. As with the Ph.D. program, the demands of the MA: Pre-Doctoral degree's training requirements are not amenable to part-time or weekend course schedules.

Clinical psychology is the psychological science that seeks to understand, assess, and treat psychological disorders and conditions. SHSU clinical psychology students' published research has examined test development, personality assessment, psychopathology, gender and race/ethnicity issues, jury processes, and public policy, among other topics. Students' practicum experiences have involved work with serious mental illness (SMI), people with brain injuries, persons with a substance use disorder, adolescents, children and families, and persons in the legal system. Practicum settings have included a variety of inpatient and residential settings, private psychological practices, and correctional settings. In addition, the program operates its own Psychological Services Center where students provide services to a broad range of community clientele.

Students applying to this program must be admitted to Sam Houston State University as doctoral students. Doctoral students admitted to the university who have not received a Masters degree at another institution obtain the MA in Clinical Psychology: Pre-Doctoral on their way to obtaining the Ph.D. in Clinical Psychology. Applicants seeking admission to the doctoral program in clinical psychology must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): An university application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.* Applicants are welcome to submit transcripts for coursework from additional institutions, though this is not necessary.
4. Program application with the fee.
5. A minimum of two letters of recommendation (three are preferred).
6. Personal Statement/Essay.
7. Current resume or curriculum vitae.
8. TOEFL score (if applicable).
9. **Optional:** GRE scores. (Please note that you are not required to submit GRE scores with your application.)

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

The application deadline is December 1, 2025.

For application forms or further information, write, or call:

Clinical Psychology Ph.D. Program
Department of Psychology and Philosophy
Sam Houston State University
Box 2210
Huntsville, TX 77341-2210
Telephone: (936) 294-1210
E-mail: clinpsy@shsu.edu

Note: Incomplete applications will not be reviewed.

As for the Ph.D. in Clinical Psychology, the following guidelines are offered to demonstrate the nature of the training.

1. A course of study that includes training in the discipline-specific knowledge of psychology, including research and quantitative methods; history and systems of psychology; and the affective, biological, cognitive, developmental, and social bases of behavior. Students are also trained in the profession-wide competencies associated with clinical psychology, which include research, ethical and legal standards, individual and cultural diversity, professional values and attitudes, communication and interpersonal skills, assessment, intervention, supervision, and consultation and inter-professional/interdisciplinary skills. This course of study is sequential, cumulative, graded in complexity, and designed to prepare students for entry-level practice and further organized training.
2. Enrollment as a full-time student (i.e., a minimum of 9 credit hours per semester) on campus for at least four consecutive long (i.e., Fall, Spring) semesters.
3. Doctoral students must earn a grade of B or above in all classes. Please, consult the Program Handbook for a more detailed description of policies regarding academic standards.
4. Passing a written comprehensive examination.
5. Completion and defense of a doctoral dissertation that is the product of original scholarly research and is of such quality as to represent a meaningful contribution to knowledge in the field of psychology.
6. Completion of a year-long pre-doctoral internship, during which the student works full-time in an applied clinical setting.
7. Completion of the degree within 6 years from the first semester of registration as a doctoral student (i.e., following completion of requirements for the master's degree).

Students entering with a master's degree in psychology and who have completed similar courses as part of their degree may have courses waived at the discretion of the Doctoral Program Faculty.

Code	Title	Hours
Master of Arts in Clinical Psychology: Pre-Doctoral		
Specified Courses		
PSYC 5330	Psychopathology	3
PSYC 5333	Theory and Research In Psychotherapy I	3
PSYC 5387	Advanced Statistics	3
PSYC 5388	Experimental Design	3
PSYC 5394	Psychometrics	3
PSYC 5395	Assessment of Intelligence and Achievement	3
PSYC 5396	Assessment of Personality and Psychopathology	3
PSYC 6099	Thesis [1]	6
Pre-Doctoral Track		
PSYC 7370	Empirically Supported Treatments	3
PSYC 7330	Clinical Psychology Proseminar	3
PSYC 7377	Cognitive and Affective Bases of Behavior	3
or PSYC 7378	Social and Developmental Bases of Behavior	
PSYC 7387	Multivariate Statistics in Psychology	3
PSYC 8360	Forensic Assessment I (Or Restricted Elective) [2]	3
PSYC 8361	Forensic Assessment II (Or Restricted Elective) [2]	3
PSYC 8381	Beginning Doctoral Practicum	3
PSYC 8382	Doctoral Clinical Practicum I	6
PSYC 8383	Doctoral Clinical Practicum II	3
Total Hours		**57**

[1] Once enrolled in PSYC 6099, students must enroll in this course in every semester until Thesis is completed.

[2] See below list of Restricted Electives. If 6 hours of Restricted Electives are taken in lieu of PSYC 8360 and PSYC 8361, these courses cannot be counted for the 6 hours of electives already required in the degree plan.

Code	Title	Hours
Restricted Electives [2]		
PSYC 5035	Special Problems in Psychology	3
PSYC 5334	Theory and Research In Psychotherapy II	3
PSYC 5340	Evidence-Based Child Therapy	3
PSYC 5361	Neuropsychopharmacology	3
PSYC 5370	Academic Assessment and Consultation	3

PSYC 5385	Advanced Health Psychology	3
PSYC 5390	Teaching of Psychology	3
PSYC 5396	Assessment of Personality and Psychopathology	3
PSYC 5398	Advanced Child Assessment	3
PSYC 6394	Practicum in Psychometrics	3
PSYC 7333	Law and Social Psychology	3
PSYC 7374	Human Neuropsychology	3
PSYC 7388	Latent Variable Modeling	3
PSYC 7392	Topics in Clinical Psychology	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

Following the completion of the MA in Clinical Psychology: Pre-Doctoral, the student will proceed with the degree requirements for the Ph.D. in Clinical Psychology. Completing the doctoral degree will meet the educational requirements designed to provide graduates with the following marketable skills:

- Graduates will meet the educational requirements for licensure as psychologist in Texas.
- As licensed psychologists or while working under supervision, graduates will be able to provide comprehensive, multi-method psychological evaluations to answer a wide range of referral questions as licensed psychologists.
- As licensed psychologists or while working under the supervision, graduates will be able to provide psychotherapy services to diverse clients using empirically-supported treatment techniques.
- Graduates will be competent to conduct psychological research, including developing research questions, designing empirical research, and using quantitative methods.

Master of Arts in Clinical Psychology

The Master of Arts degree in Clinical Psychology is designed to produce Master's-level practitioners who are qualified to apply for licensure as a Licensed Psychological Associate (LPA) by the Texas State Board of Examiners of Psychologists. Texas state licensure rules and regulations require 60 hours of coursework in order to be eligible to obtain an LPA and practice independently. The program provides supervised practicum experiences and equips students with applied skills in psychological assessment, diagnosis and clinical intervention. A Master's degree in Clinical Psychology from SHSU also prepares students for further graduate study and/or community college teaching. Students must successfully complete two capstone evaluations in assessment and psychotherapy typically during their last semester of the program.

While the program is primarily practitioner-oriented and all students are admitted under the non-thesis degree plan, students may gain valuable research experience by joining faculty members' research labs. In addition, a limited number of students may pursue a formal thesis when a faculty mentor supports their prospectus and agrees to supervise their thesis research. Note that an additional 6 hours of Thesis coursework are required for the thesis option.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/clinical-psychology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the Master of Arts in Clinical Psychology must submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application: (http://www.shsu.edu/admissions/apply-texas.html) The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee: (http://www.shsu.edu/admissions/apply-texas.html) An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.* (12 hours of coursework in psychology is required)
4. Applicants are expected to have earned a minimum undergraduate GPA of 3.0 from the accredited institution granting the undergraduate degree. Applicants who have an undergraduate GPA below 3.0 and do not possess graduate coursework demonstrating significant improvement are encouraged to provide an explanation for the applicant's low GPA and why the GPA is not indicative of the applicant's academic and professional potential in the Letter of Intent.
5. Letter of intent: The Letter of Intent is your opportunity to discuss your fit with the program offered at Sam Houston State University. While you have a significant amount of freedom to discuss anything you would like in your letter of intent, please address your short-term and long-term academic/professional goals, your research interests, and how these interests align with specific faculty research agendas. In addition, please discuss your expectations for training in light of the changing demographics of the U.S.
6. Three completed recommendation forms that comment on the applicant's suitability for graduate study. The most useful recommendations come from university faculty who are able to describe the applicant's potential for success in graduate study.
7. Official GRE General Exam scores.
8. Curriculum Vita (CV) with sections emphasizing education, research experience, volunteer or clinical experience, and any notable achievements, awards, or proficiencies.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Students will be admitted for the Fall (no spring or summer admissions). The application deadline for Fall enrollment is February 15.

Admission to the MA in Clinical Psychology program is competitive and the number of available positions is limited.

Note: Incomplete applications will not be reviewed.

In addition to the courses listed below, all students must complete two capstone evaluations in assessment and psychotherapy near the end of their program. The details of the comprehensive examinations are set out in the Program Handbook.

Degree Plan 1: Non-Thesis Option

Code	Title	Hours
Master of Arts in Clinical Psychology: Non-Thesis Option		
Specified Courses		
PSYC 5330	Psychopathology	3
PSYC 5332	Advanced Social Psychology	3
PSYC 5333	Theory and Research In Psychotherapy I	3
PSYC 5360	Advanced Physiological Psychology	3
PSYC 5377	Emotion and Cognition	3
PSYC 5379	Ethical Practice in Psychology	3

PSYC 5380	Psychology of Diversity	3
PSYC 5387	Advanced Statistics	3
PSYC 5388	Experimental Design	3
PSYC 5394	Psychometrics	3
PSYC 5395	Assessment of Intelligence and Achievement	3
PSYC 5396	Assessment of Personality and Psychopathology	3
PSYC 5397	Advanced Developmental Psychology	3
PSYC 6390	Techniques in Psychotherapy	3
PSYC 6391	Practicum I	3
PSYC 6392	Practicum II	3
PSYC 6393	Practicum III	3
Restricted Electives		
Select three of the following:		9
PSYC 5334	Theory and Research In Psychotherapy II [1]	
PSYC 5340	Evidence-Based Child Therapy	
PSYC 5361	Neuropsychopharmacology	
PSYC 7339	Developmental Psychopathology	
Total Hours		**60**

[1] PSYC 5334 can be repeated when topic differs.

Degree Plan II: Thesis Option

Code	Title	Hours
Master of Arts in Clinical Psychology: Thesis Option		
Specified Courses		
PSYC 5330	Psychopathology	3
PSYC 5332	Advanced Social Psychology	3
PSYC 5333	Theory and Research In Psychotherapy I	3
PSYC 5360	Advanced Physiological Psychology	3
PSYC 5377	Emotion and Cognition	3
PSYC 5379	Ethical Practice in Psychology	3
PSYC 5380	Psychology of Diversity	3
PSYC 5387	Advanced Statistics	3
PSYC 5388	Experimental Design	3
PSYC 5394	Psychometrics	3
PSYC 5395	Assessment of Intelligence and Achievement	3
PSYC 5396	Assessment of Personality and Psychopathology	3
PSYC 5397	Advanced Developmental Psychology	3
PSYC 6390	Techniques in Psychotherapy	3
PSYC 6391	Practicum I	3
PSYC 6392	Practicum II	3
PSYC 6393	Practicum III	3
Thesis Requirements		
PSYC 6099	Thesis [1]	6
Restricted Electives		
Select three of the following:		9
PSYC 5334	Theory and Research In Psychotherapy II [2]	
PSYC 5340	Evidence-Based Child Therapy	
PSYC 5361	Neuropsychopharmacology	
PSYC 7339	Developmental Psychopathology	
Total Hours		**66**

[1] Once enrolled in PSYC 6099 students must enroll in this course in every semester until graduation.
[2] PSYC 5334 can be repeated when topic differs.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Clinical Psychology is designed to provide graduates with the following marketable skills:

- Eligibility to pursue licensure at the Master's level as a Licensed Psychological Associate (LPA) in the state of Texas.
- Clinical skills for conducting psychological interventions with a variety of clinical populations.
- Assessment skills for conducting psychological evaluations of cognitive and emotional functioning.
- Research skills that allow graduates to be effective scholars and consumers of the scientific literature.
- Qualification to teach in community college and other educational settings.

Master of Arts in Experimental Psychology

The MA in Experimental Psychology provides training in the scientific sub-disciplines of psychology. The program is an experimentally oriented program that is designed to give students a broad foundation in psychological science and does not provide training in the delivery of psychological services. Instead, students learn about human behavior and gain key analytical skills that will prepare them for further doctoral education or to enter the work force in research management or teaching positions. Students may pursue a formal research thesis when a faculty mentor supports their prospectus and agrees to supervise their thesis research. In addition, in order to graduate with an MA degree in this program, students take a comprehensive examination in their final semester, which assesses their knowledge of the areas to which they have been exposed.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/psychology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the Master of Arts program in Experimental Psychology must submit the following documents to the Office of Graduate Admissions: (https://www.shsu.edu/dept/graduate-admissions/transition.html)

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee: (http://www.shsu.edu/dept/graduate-studies/application-fee.html) An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.* (12 hours of psychology coursework required; a statistics and/or research methods course is strongly encouraged)
4. Applicants are expected to have earned a minimum undergraduate GPA of 3.0 from the accredited institution granting the undergraduate degree. Applicants who have an undergraduate GPA below 3.0 and do not possess graduate coursework demonstrating a higher GPA are encouraged to provide an explanation for the applicant's low GPA and why the GPA is not indicative of the applicant's academic and professional potential in the Letter of Intent.
5. Letter of Intent/Personal Statement: The Letter of Intent--also referred to as a Personal Statement--is your opportunity to discuss your fit with the program offered at Sam Houston State University. While you have a significant amount of freedom to discuss anything you would like in your letter of intent, you may want to address your short-term and long-term academic/professional goals and how your interests and goals fit with our program. In addition, if planning a thesis, please describe your research interests and how they align with specific faculty research agendas.
6. Three completed recommendation forms that comment on the applicant's suitability for graduate study. The most useful recommendations come from university faculty who are able to describe the applicant's potential for success in graduate study.
7. Official GRE General Exam scores.
8. Curriculum Vita (CV) with sections emphasizing education, research experience, volunteer experience, and any notable achievements, awards, or proficiencies.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Students will be admitted for the Fall (no spring or summer admissions). The application deadline for Fall enrollment is February 15.

Notes

Admission to the MA Program in Experimental Psychology is competitive and the number of available positions is limited.

Incomplete applications will not be reviewed.

In addition to the courses listed below, all students must complete a comprehensive examination near the end of their program. The details of the comprehensive examinations are set out in the Program Handbook.

Plan 1 - MA in Experimental Psychology (Non-thesis)

Code	Title	Hours
Master of Arts in Experimental Psychology (Non-thesis)		
Specified Courses		
PSYC 5331	Seminar in Experimental Psychology	3
PSYC 5332	Advanced Social Psychology	3
PSYC 5336	Advanced Cognitive Psychology	3
PSYC 5360	Advanced Physiological Psychology	3
PSYC 5381	Advanced Learning Theory	3
PSYC 5387	Advanced Statistics	3
PSYC 5388	Experimental Design	3
PSYC 5389	Applied Multivariate Statistics for Psychology	3
PSYC 5397	Advanced Developmental Psychology	3
Electives		
Select three graduate courses in an approved field [1,2]		9
Total Hours		**36**

1. Selections should be made in consultation with the Graduate Advisor and cannot include PSYC 5395, PSYC 5396, nor any thesis courses.
2. Students interested in teaching in higher education settings are encouraged to take PSYC 5392, History and Systems of Psychology and PSYC 5390, Teaching of Psychology.

Plan 2 - MA in Experimental Psychology (Thesis)

Code	Title	Hours
Master of Arts in Experimental Psychology (Thesis)		
Specified Courses		
PSYC 5331	Seminar in Experimental Psychology	3
PSYC 5332	Advanced Social Psychology	3
PSYC 5336	Advanced Cognitive Psychology	3
PSYC 5360	Advanced Physiological Psychology	3
PSYC 5381	Advanced Learning Theory	3
PSYC 5387	Advanced Statistics	3
PSYC 5388	Experimental Design	3
PSYC 5389	Applied Multivariate Statistics for Psychology	3
PSYC 5397	Advanced Developmental Psychology	3
Electives		
Select two graduate courses in an approved field [1]		6
Thesis		
PSYC 6099	Thesis [2]	6
Total Hours		**39**

1. Selections should be made in consultation with the Graduate Advisor and cannot include PSYC 5395 or PSYC 5396.
2. Once enrolled in PSYC 6099, students must enroll in this course in every semester until graduation.

Note: Students must pass a written Comprehensive Exam at the close of their training in order to obtain an M.A. degree. Students must be enrolled in the University during the semester in which the comprehensive exam is administered.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Experimental Psychology is designed to provide graduates with the following marketable skills:

- Knowledge in the scientific process, which is an essential skill for employment in research and development.
- A thorough understanding of physiological, cognitive, social, and emotional determinants of behavior.
- The ability to write and disseminate findings from research.
- Proficiency in critical analysis.
- Qualification to teach at the Community College level and other educational settings.

Specialist Degree in School Psychology

The Specialist Degree in School Psychology is designed to produce effective independent providers of psychological services within the schools. Completion of the degree program also prepares students for further graduate study and/or junior college teaching. This program is fully approved by the National Association of School Psychologists (NASP), and graduates are eligible for licensure as a Licensed Specialist in School Psychology (LSSP) in Texas and the Nationally Certified School Psychologist (NCSP) credential provided by NASP.

This degree program includes a minimum of 60 graduate credit hours, 54 of which are typically taken full-time and year round for two consecutive years, followed by an academic year of full-time internship experience (6 credit hours). Students will gain 300+ hours of practicum experience prior to the internship and are license eligible immediately upon graduation. Internship placements are competitive, but our program boasts a 100% intern employment rate, with most students acquiring paid internship placements.

Applicants seeking admission to the school psychology program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee: (http://www.shsu.edu/dept/graduate-studies/application-fee.html) An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.*
4. Official GRE scores (completed within the past five years).
5. Three letters of recommendation preferably from faculty at the undergraduate degree-granting institution that discuss the applicant's academic and professional potential.
6. Letter of Intent/Personal Statement: Applicants should submit a written statement discussing their fit with the SSP Program. While the applicant has a significant amount of freedom to discuss anything they wish in the statement, they are encouraged to explain why they wish to pursue the Specialist degree in School Psychology, how their educational background and/or work experience has prepared them to undertake a graduate degree in psychology, and what they plan to do professionally once they have completed the degree program.
7. Applicants are expected to have earned a minimum undergraduate GPA of 3.0 or higher from the accredited institution granting the undergraduate degree. Applicants who have an undergraduate GPA below 3.0 are encouraged to provide an explanation for the applicant's low GPA and why the GPA is not indicative of the applicant's academic and professional potential in the Letter of Intent.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Note: Incomplete applications will not be reviewed.

In addition to the courses listed below, all students must complete a comprehensive examination near the end of their program. In lieu of traditional comprehensive examinations, students must take the Praxis II, the standardized examination required for professional licensure in school psychology, and receive a passing score—as established by the State Board.

Code	Title	Hours
Specialist Degree in School Psychology		
Specified Courses		
PSYC 5330	Psychopathology	3
PSYC 5338	Consultation In School Psychology	3
PSYC 5339	Advanced School Psychology	3
PSYC 5340	Evidence-Based Child Therapy	3
PSYC 5361	Neuropsychopharmacology	3
PSYC 5370	Academic Assessment and Consultation	3
PSYC 5379	Ethical Practice in Psychology	3
PSYC 5380	Psychology of Diversity	3
PSYC 5381	Advanced Learning Theory	3
PSYC 5387	Advanced Statistics	3
PSYC 5394	Psychometrics	3
PSYC 5395	Assessment of Intelligence and Achievement	3
PSYC 5397	Advanced Developmental Psychology	3
PSYC 5398	Advanced Child Assessment	3
PSYC 6371	Internship in Psychology [1]	6
PSYC 6394	Practicum in Psychometrics	3

PSYC 6395	System Organization, Administration, and Change	3
PSYC 6396	Practicum in School Psychology I	3
PSYC 6397	Practicum in School Psychology II	3
Total Hours		**60**

[1] PSYC 6371 is taken twice for 6 hours (PSYC 6371A and PSYC 6371B).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Specialist Degree in School Psychology is designed to provide graduates with the following marketable skills:

- Eligibility to pursue licensure as a Licensed Specialist in School Psychology (LSSP) in Texas or the equivalent in other states.
- Eligibility to pursue the Nationally Certified School Psychologist (NCSP) credential granted by the National Association of School Psychologists (NASP).
- Knowledge and practical skills needed to conduct high quality psychological and psychoeducational assessments.
- Knowledge and practical skills required to provide both academic and behavioral consultation services, including the development and implementation of both academic and behavioral interventions.
- Knowledge and practical skills necessary to provide both individual and group counseling services to children and adolescents.

Department of Sociology

About

Chair: Dr. (jbs048@shsu.edu) Bart Stykes

Graduate Director:

Dr. Tze-Li Hsu
Email: thsu (thsu@shsu.edu)@shsu.edu (jbs048@shsu.edu)
Phone: 936-294-2675
CHSS 270 B2

Website: Department of Sociology (http://www.shsu.edu/academics/sociology/)

Mission

Sociology is a discipline concerned with equality, justice, and social responsibility within society's cultural, political, and economic systems. The mission of the Sociology Department at Sam Houston State University is to cultivate sociological mindfulness, which involves understanding how social forces and cultural contexts shape people's experiences, how personal troubles are connected to broader social issues, and how social arrangements create both constraints and opportunities for individuals and groups. Sociological mindfulness promotes critical and analytical thinking and equips students with the theoretical, methodological, and communication skills to work with others to solve problems and improve social conditions in local communities and the broader society.

Programs

The Sociology Department at Sam Houston State University offers unique master's and certificate programs designed to meet the needs of active students and professionals. Both the Master of Arts in Sociology and Graduate Certificate in Sociology are entirely *online* programs designed to provide students with advanced instruction in quantitative and qualitative techniques of sociological research, theory, and leading topical areas in sociology. In both programs, students develop the professional skills necessary to analyze social issues in applied settings and advance their careers.

Curriculum

The graduate programs in Sociology are designed to provide students with advanced instruction in methodological techniques, theoretical perspectives, and empirical evidence in substantive areas that guide sociological inquiry. Given our faculty's varying research agendas, our program emphasizes Public Sociology. Upon completing our program, students cultivate skills that bring sociology to the public sphere through foci such as grant writing, program evaluation, impact assessment, social justice, and community-based research. The program has strengths in the following specialty areas: social inequality, health and well-being, and community, food, and the environment.

- Master of Arts in Sociology (p. 1702)
- Graduate Certificate in Sociology (p. 1704)

Director/Chair: **James Bartlett Stykes**

Emily R Cabaniss, PHD (erc016@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, North Carolina State Univ; MA, Univ of N Carolina-Greensboro; BA, Univ of N Carolina-Greensboro

Jin Young Choi, PHD (jyc002@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Univ of Hawaii At Manoa; MA, Univ of Hawaii At Manoa; MPH, Univ of Hawaii At Manoa; MS, Ewha Women's University; BS, Ewha Women's University

Furjen Deng, PHD (soc_fjd@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Purdue University; MS, Purdue University; BA, National Taiwan University

Karen M Douglas, PHD (kmd007@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Jeffrey A Gardner, PHD (jag175@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Georgia; MA, Univ of Georgia; BA, Brigham Young University-Idaho

TzeLi Hsu, PHD (thsu@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Florida State University; MS, Mississippi State University; BA, National Taiwan University

Olena Viacheslavivna Leipnik, PHD (oxl001@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Kharkiv VN Karazin Nat'l Univ; MA, Luhansk T. S. Pedagogical Univ; MA, Kyiv Taras Shevchenko Nat'l Un; BA, Kyiv Taras Shevchenko Nat'l Un

Lee Mary Miller, PHD (lee.miller@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; AB, Smith College

Mary Larue Scherer, PHD (mxs168@shsu.edu), *Assistant Professor of Sociology*, *Department of Sociology*, PHD, Univ of Massachusetts-Amherst; MA, Univ of Massachusetts-Amherst; BA, Warren Wilson College

James Bartlett Stykes, PHD (jbs048@shsu.edu), *Associate Professor and Acting Chair of Sociology*, *Department of Sociology*, PHD, Bowling Green State University; MA, Bowling Green State University; BS, Austin Peay State University

Brooklynn Joy Wynveen, PHD (bjw028@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Clemson University; MNRD, Texas A&M University; BA, Univ of Maryland-Univ Coll

Master of Arts in Sociology

The Master of Arts in Sociology is a completely online program designed to provide students with advanced instruction in quantitative and qualitative techniques of sociological research, theory, and sociological analysis. Students will develop the advanced professional skills necessary to analyze social issues in applied settings and advance their careers. The Master of Arts in Sociology degree program emphasizes public sociology. Public Sociology takes many forms and ranges from community-based research and partnerships to the publication of research briefs that seek to engage the broader public to engagement in local social movements. Students have the option of completing a thesis or capstone project.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/sociology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit

All students seeking admission to the Master of Arts program in Sociology must submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application (https://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee: (http://www.shsu.edu/dept/graduate-studies/application-fee.html) An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts from all degree-granting insitutions.*

Applicants having at least a 3.50 undergraduate GPA and a degree in Sociology will be automatically admitted. In addition to these *required* application materials, the graduate committee strongly recommends that applicants submit additional items based on their prior coursework and performance.

For applicants who have *either* a 3.5 undergraduate GPA without a Sociology degree *or* a 3.0-3.49 undergraduate GPA, we **strongly recommend** they include a response to the following prompt:

> In 500 to 1,000 words, describe how your personal, professional, and/or educational experiences have prepared you to engage with sociological thinking. Then, select a social problem that is important to you and demonstrate how a sociological perspective can be used to consider potential solutions. Finally, identify professional or career goals and articulate how our program can help you to achieve them.

If applicants have a traditional writing sample that demonstrates their ability to apply a sociological perspective, they may submit that in the place of their response to the prompt.

For applications who have below a 3.0 undergraduate GPA, we **strongly recommend** they include a response to the previously stated prompt (or a writing sample), at least one letter from a professional reference, and a statement explaining why their undergraduate GPA is not the best indicator of their potential to succeed in the program.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Students will be admitted for the Fall, Spring, and Summer semesters. The application deadline for Spring enrollment is December 1st; the application deadline for Summer enrollment is May 1; the application deadline for Fall enrollment is August 1st.

Notes

Admission to the MA Program in Sociology is competitive and the number of available positions is limited.

Incomplete applications will not be reviewed.

Contact information:

Tze-Li Hsu, Ph.D.
Director of Graduate Studies
Department of Sociology
Sam Houston State University
thsu@shsu.edu
936-294-2675

The Master of Arts in Sociology requires a minimum of 30 hours of 5000-level SOCI courses.

Students can select between a Thesis Option and a Non-Thesis Option.

Requirements

Thesis Option (30 semester hours)

- Must complete 9 hours of Core Requirements
- SOCI 6098 and SOCI 6099, which represent the completion of a formal MA thesis
- Minimum of 15 credit hours of Sociology Electives

Non-Thesis Option (30 semester hours)

- Must complete 9 hours of Core Requirements
- Minimum of 21 hours of Sociology Electives
- Must complete the Capstone Project. The requirements for the capstone project include a formal paper and professional presentation.

Required Courses

Students pursuing a Master's Degree in Sociology must take the following core courses.

Code	Title	Hours
Course Requirements		
SOCI 5310	Seminar In Sociological Theory	3
SOCI 5312	Seminar in Sociological Research	3
SOCI 5314	Social Statistics	3
Total Hours		**9**

Degree Plan 1 - MA in Sociology (Thesis Option)

Code	Title	Hours
Master of Arts in Sociology (Thesis Option)		
Specified Courses		
SOCI 5310	Seminar In Sociological Theory	3
SOCI 5312	Seminar in Sociological Research	3
SOCI 5314	Social Statistics	3
SOCI 6098	Thesis Practicum	3
SOCI 6099	Thesis	3
Prescribed Electives: SOCI		
Select five of the following:		15
SOCI 5313	Qualitative Methods	
SOCI 5320	Sociology of Community	
SOCI 5321	Cultural Sociology	
SOCI 5322	Seminar In Medical Sociology	
SOCI 5324	Seminar in Social Change and Development	
SOCI 5325	Seminar in Food and Society	
SOCI 5331	Sociology of The Family	
SOCI 5337	Gender and Society	
SOCI 5338	Sociology of Disasters	
SOCI 5351	Seminar in Environmental Sociology	
SOCI 5353	Seminar in Race And Ethnic Studies	
SOCI 5355	Seminar in Social Inequality	
SOCI 5378	Techniques of Research Proposal Writing in Social Sciences	
SOCI 5380	Social Impact Assessment and Program Evaluation	
SOCI 5384	Seminar in Economy and Society	
SOCI 5386	The Sociology of Aging	
SOCI 6360	Seminar In Sociology	
Total Hours		**30**

Degree Plan 2 - MA in Sociology (Non-Thesis Option)

Code	Title	Hours
Bachelor of Arts in Sociology (Non-Thesis Option)		
Specified Courses		
SOCI 5310	Seminar In Sociological Theory	3
SOCI 5312	Seminar in Sociological Research	3
SOCI 5314	Social Statistics	3
Prescribed Electives: SOCI		
Select seven of the following:		21
SOCI 5313	Qualitative Methods	
SOCI 5320	Sociology of Community	
SOCI 5321	Cultural Sociology	
SOCI 5322	Seminar In Medical Sociology	
SOCI 5324	Seminar in Social Change and Development	
SOCI 5325	Seminar in Food and Society	
SOCI 5331	Sociology of The Family	
SOCI 5337	Gender and Society	
SOCI 5338	Sociology of Disasters	
SOCI 5351	Seminar in Environmental Sociology	
SOCI 5353	Seminar in Race And Ethnic Studies	
SOCI 5355	Seminar in Social Inequality	
SOCI 5378	Techniques of Research Proposal Writing in Social Sciences	
SOCI 5380	Social Impact Assessment and Program Evaluation	
SOCI 5384	Seminar in Economy and Society	
SOCI 5386	The Sociology of Aging	
SOCI 6360	Seminar In Sociology	
Total Hours		**30**

Notes: Must complete the Capstone Project. The requirements for the capstone project include a formal paper and professional presentation.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Sociology is designed to provide graduates with the following marketable skills:

- Expertise in core sociological theories, concepts, and methods.
- Expertise in multiple topical areas in sociology.
- Knowledge of sociology pedagogy.
- Applied skills in data management and analyses.
- Competency to teach sociology courses at the community college and high school levels.

Graduate Certificate in Sociology

The Graduate Certificate in Sociology is designed for post-baccalaureate students interested in attaining the necessary expertise to teach sociology at the high school and community college levels. The program is intended to assist individuals with the skills and knowledge to teach courses in the area of sociology.

Upon completion of the certificate program, students will have:

- Expertise in core sociological theories, concepts, and methods;
- Expertise in multiple topical areas in sociology;
- Knowledge of sociology pedagogy;
- Competency to teach sociology courses at the community college and high school levels.

The program is intended to serve:

- Community college teachers
- High school teachers

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/sociology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

All students seeking admission to the Graduate Certificate in Sociology must submit the following documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application (https://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee: (http://www.shsu.edu/dept/graduate-studies/application-fee.html) An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts from all degree-granting institutions. *

Applicants having at least a 3.50 undergraduate GPA and a degree in Sociology will be automatically admitted. In addition to these *required* application materials, the graduate committee strongly recommends that applicants submit additional items based on their prior coursework and performance.

For applicants who have *either* a 3.5 undergraduate GPA without a Sociology degree *or* a 3.0-3.49 undergraduate GPA, we **strongly recommend** they include a response to the following prompt:

> In 500 to 1,000 words, describe how your personal, professional, and/or educational experiences have prepared you to engage with sociological thinking. Then, select a social problem that is important to you and demonstrate how a sociological perspective can be used to consider potential solutions. Finally, identify professional or career goals and articulate how our program can help you to achieve them.

If applicants have a traditional writing sample that demonstrates their ability to apply a sociological perspective, they may submit that in the place of their response to the prompt.

For applications who have below a 3.0 undergraduate GPA, we **strongly recommend** they include (1) a response to the previously stated prompt (or a writing sample), (2) at least one letter from a professional reference, and (3) a statement explaining why their undergraduate GPA is not the best indicator of their potential to succeed in the program.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Students will be admitted for the Fall, Spring, and Summer semesters. The application deadline for Spring enrollment is December 1st; the application deadline for Summer enrollment is May 1; the application deadline for Fall enrollment is August 1st.

Notes

Incomplete applications will not be reviewed.

Contact information:

Tze-Li Hsu, Ph.D.
Director of Graduate Studies
Department of Sociology
Sam Houston State University
thsu@shsu.edu
936-294-2675

The Graduate Certificate in Sociology is an 18-hour certificate. It entails three required courses and three elective courses. The certificate is designed to be taken fully online. Full-time students will be able to complete the program in a year. Students admitted into the Graduate Certificate Program are eligible to transfer into the Master of Arts in Sociology program if they meet the program requirements.

Code	Title	Hours
Graduate Certificate in Sociology		
Required Courses		
SOCI 5310	Seminar In Sociological Theory	3
SOCI 5312	Seminar in Sociological Research	3
SOCI 5355	Seminar in Social Inequality	3
Electives		

Choose three of the following		9
SOCI 5320	Sociology of Community	
SOCI 5321	Cultural Sociology	
SOCI 5322	Seminar In Medical Sociology	
SOCI 5324	Seminar in Social Change and Development	
SOCI 5325	Seminar in Food and Society	
SOCI 5331	Sociology of The Family	
SOCI 5337	Gender and Society	
SOCI 5338	Sociology of Disasters	
SOCI 5351	Seminar in Environmental Sociology	
SOCI 5353	Seminar in Race And Ethnic Studies	
SOCI 5378	Techniques of Research Proposal Writing in Social Sciences	
SOCI 5384	Seminar in Economy and Society	
SOCI 5386	The Sociology of Aging	
SOCI 6360	Seminar In Sociology	
Total Hours		**18**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Sociology is designed to provide graduates with the following marketable skills:

- Expertise in core sociological theories, concepts, and methods.
- Expertise in multiple topical areas in sociology.
- Applied skills in data management and analyses.
- Competency to teach sociology courses at the community college and high school levels (with an existing MA).

Department of World Languages and Cultures

Chair: Maria Barker, Ph.D. (mhb015@shsu.edu)
Phone: (936) 294-1442

Advisors for MA in Spanish
Dr. Montse Feu (mmf017@shsu.edu)
936-294-3448

Contact Information

(936) 294-1441
(936) 294-1447
ABIV 429
worldlanguages@shsu.edu (wolcgrad@shsu.edu)

Websites
Department of World Languages and Cultures (https://www.shsu.edu/academics/world-languages-cultures/)
M.A. in Spanish (https://www.shsu.edu/programs/graduate/spanish/)

Mission

The study of languages and cultures not only enables communication across languages, but opens doors to different cultures and perspectives . Knowledge of languages and cultures provides exciting career opportunities.

- Master of Arts in Spanish (p. 1708)

Director/Chair: **Maria Hasler Barker**

Miriam Ama Bima Akoto, PHD (maa126@shsu.edu), *Assistant Professor of French*, *Department of World Languages & Cultures*, PHD, East Texas A&M; MA, Univ of Arizona; BA, Kwame Nkrumah University

Maria Hasler Barker, PHD (mhb015@shsu.edu), *Associate Professor of Spanish, Chair of World Languages & Cultures*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Brigham Young University

Maria M Feu Lopez, PHD (mmf017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Hood College; BA, Universidad de Barcelona

Jamile Marmitt Forcelini, PHD (forcelini@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Florida State University; MA, Florida State University; BA, University of Passo Fundo

Leif M French, PHD (lmf027@shsu.edu), *Adjunct Faculty, Sr. Associate Dean, CHSS*, *Department of World Languages & Cultures*, PHD, Universite Laval; MA, Universite Laval; BA, California St Un-Sacramento

Tracy Rouly Knight, EDD (trk033@shsu.edu), *Associate Professor of American Sign Language*, *Department of World Languages & Cultures*, EDD, Lamar University; MS, Lamar University; BA, Gallaudet University

Enrique Mallen, PHD (edm012@shsu.edu), *Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Cornell University; MA, Cornell University; MA, Universidad de Sevilla

Lillie Vivian Ka Padilla, PHD (lvp005@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Arizona State University; MA, Arizona State University; BA, University of Ghana; BA, University of Ghana

Manuel Triano-Lopez, PHD (mxt017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Universidad de Sevilla

Edna Viviana Velasquez, PHD (evv003@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main

Samar M Zahrawi, PHD (sxz015@shsu.edu), *Associate Professor of Arabic*, *Department of World Languages & Cultures*, PHD, University of Leeds; BA, Al-Ba'ath University

Master of Arts in Spanish

The Master of Arts in Spanish is designed to prepare students for careers as Spanish instructors in secondary and higher education institutions, for employment as professional interpreters within various industries, for future advanced study, and for advancing their proficiency in a second language and culture.

This non-thesis program provides a thorough foundation in practical fluency and cultural skills through 36 credit hours of analytical and linguistic coursework.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/spanish/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applications to the Masters of Arts in Spanish Program are reviewed on a rolling basis, with application deadlines of: July 15th for the fall semester; November 15th for the spring semester; and April 15th for the summer semester. The Program's admission considerations include the following:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application Fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Transcripts documenting all prior degrees.*
4. A current resume or curriculum vitae (in English).
5. A writing sample of scholarly or professional work (in Spanish), showcasing the applicant's writing ability (1000 words minimum).
6. A statement of interest (in English) that summarizes the applicant's professional goals, how this degree will help the applicant obtain their professional goals, and how the applicant's personal and professional experiences have prepared them for the MA program. The statement should be no more than two single-spaced pages
7. Name and contact information for at least two individuals who can speak about the applicant's academic and professional potential.
8. Applicants who do not possess a graduate degree from an accredited institution, are expected to have earned a minimum undergraduate GPA of 3.0 from the accredited institution granting the undergraduate degree
9. Applicants are expected to have at least 18 undergraduate hours of Spanish.
10. Applicants who do not possess 18 undergraduate hours of Spanish or have an undergraduate GPA below 3.0 may submit additional information as evidence of their academic and professional potential. Additional information may include, but is not limited to: GRE scores, a narrative that provides an explanation for the applicant's low GPA and why the GPA is not indicative of the applicant's academic and professional potential, and/or a narrative that explains in what other ways the applicant has acquired knowledge of Spanish language and Hispanic culture, etc.

*Applicants may submit unofficial transcripts for review by the admissions committee. However, under university policy, admission decisions are contingent upon receipt of official transcripts.

Applicants must submit all application materials directly to Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html) by the relevant deadline.

A holistic review of each applicant's file will then be completed, with admission to the MA in Spanish program offered to applicants on a competitive basis.

Note: Incomplete applications will not be considered.

The M.A. in Spanish requires a minimum of thirty-six hours of graduate credit. At the end of the program, students must also take and pass a comprehensive exam covering three specific areas of study in the MA program.

Master of Arts in Spanish

Code	Title	Hours
Master of Arts in Spanish		
Specified Courses		
SPAN 5361	The Structure of Spanish	3
SPAN 5370	History of Spanish Language	3
SPAN 5372	Spanish for Technical Composition	3
SPAN 5374	Studies in Spanish Linguistics	3
Prescribed Electives in BESL		
Select at two (2) of the following:		6
BESL 5302	Social and Cultural Language Influences On Learning	
BESL 5304	Second Language Acquisition and Development	

BESL 5311	Applied Linguistics in ESL/EFL Settings	
BESL 5317	Second Language Assessment	
Electives in SPAN		
Select six (6) graduate level electives in SPAN. [1]		18
Total Hours		**36**

[1] Graduate credits in WOLC may be applied here.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Spanish is designed to provide graduates with the following marketable skills:

- Assesses best cultural language practices and competences to engage with others in professional, academic, and social contexts.
- Engage in pluricultural identities, mediate among cultures, and navigate cultural differences.
- Evaluate assumptions, concepts, language, and culture to develop feasible solutions based on analysis and interpretation of results.
- Apply knowledge and skills to implement sophisticated, appropriate, and workable solutions to address complex problems using multilingual and multicultural perspectives.
- Adapts and applies a deep understanding of multiple world views, experiences, and power structures while initiating meaningful *c*ross-cultural interaction to address significant global questions.

Master of Arts in History and Political Studies

The Master of Arts in History and Political Studies is a fully online degree program designed for graduate students who have interdisciplinary interests and for educators who want to expand their professional credentials to teach courses in both history and government.

Requirements

The program entails 36 hours of coursework, split evenly between history and political science.

Coursework

All students are required to start with two introductory courses that provide an overview of the disciplines of history and political science as well as a grounding in each field's methodological approaches. Students are then required to take one course in each of the History Department's three thematic tracks (War & Violence, Rights & Identity, and Encounters & Exchanges) and the Political Science Department's three principal subfields (American Politics, Comparative Politics, and International Relations). Following those requirements, students choose other history courses and political science courses as electives that best suit their professional objectives. Students complete the program by enrolling in a capstone course (HIST 6394 or POLS 6394).

Thematic Tracks for History

- War & Violence: Courses examine how different societies have experienced, conducted, and remembered military conflict, mass killing, and genocide.
- Rights & Identity: Courses explore how individuals and collectives have defined themselves at different times and places around the world.
- Encounters & Exchanges: Courses explore how the world's diverse peoples have encountered and interacted with one another on a large scale over time.

Subfields for Political Science

- American Politics: Courses examine political institutions and political behavior in the United States.
- Comparative Politics: Courses explore the diverse political systems around the world.
- International Relations: Courses explore the cooperative and conflictual interactions of sovereign states and non-state actors on the global stage.

Additional Information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/history-and-political-studies/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the MA in History and Political Studies must meet the following requirements and submit all documents to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/transition.html):

1. Graduate Application (https://www.shsu.edu/admissions/apply-texas.html): The Graduate Application is an institutional application required by SHSU. Students must provide biographical and educational information and information relevant to determining State of Texas residency.
2. Application fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html): An application fee is required for all applications to graduate programs at SHSU.
3. Statement of intent: This is a written statement explaining why the applicant wishes to pursue an MA in History and Political Studies; how the applicant's educational background or work experience has prepared him/her to undertake an interdisciplinary graduate degree; and what the applicant plans to do professionally with the degree.
4. Transcripts documenting all prior degrees.
5. Names and contact information for at least two individuals who can speak to applicant's academic and professional potential.
6. An optional academic writing sample demonstrating the applicant's ability to advance an argument in professional prose.

Code	Title	Hours
Master of Arts in History and Political Science [1]		
Required Courses		**6**
HIST 5301	Methods in History	
POLS 5301	Scope & Methods of Political Science	
Required Capstone Course (choose one)		**3**
HIST 6394	Seminar in History	
POLS 6394	Capstone	
Prescribed Electives: History		
War and Violence		
Select one course from the following:		3
HIST 5333	Pre-Modern World History	

HIST 5338	Empires in World History	
HIST 5336	Pre-Modern European History	
HIST 5342	The Japanese Colonial Empire	
HIST 5351	Early Medieval Europe	
HIST 5352	High and Late Medieval Europe	
HIST 5355	Holocaust & Genocide	
HIST 5363	Seminar In Military History	
HIST 5364	Seminar in War & Violence	
HIST 5365	Film and War in America	
HIST 5366	The Reconstruction Era	
HIST 5367	World War II	
HIST 5371	Revolutionary America	
HIST 5373	United States Civil War	
HIST 5374	Seminar in the History of the American South	
HIST 5380	American Historiography	
HIST 5383	United States Diplomatic History	
HIST 5392	The Ottoman Empire, 1300-1922	
HIST 5393	European Diplomatic History	
Rights & Identity		
Select one course from the following:		3
HIST 5321	American Immigration History	
HIST 5340	Recent African-American History	
HIST 5353	Legacies of the Reformations	
HIST 5362	Seminar in American Environmental History	
HIST 5371	Revolutionary America	
HIST 5372	Early National America	
HIST 5374	Seminar in the History of the American South	
HIST 5375	Recent America, 1876-1933	
HIST 5376	Contemporary America, 1933-Present	
HIST 5378	American Cultural and Religious History	
HIST 5382	Topics In the History Of Women	
HIST 5386	African American Civil Rights	
HIST 5390	China in Revolution	
HIST 5394	Early Modern Europe	
HIST 5395	Later Modern Europe	
Encounters & Exchanges		
Select one course from the following:		3
HIST 5307	Intellectual History	
HIST 5320	Mesoamerican Civilizations	
HIST 5322	Debates in Global Migration	
HIST 5359	The Audible Past	
HIST 5360	African Environmental History	
HIST 5370	Colonial America	
HIST 5375	Recent America, 1876-1933	
HIST 5377	The American West	
HIST 5381	World Historiography	
HIST 5384	Texas History	
HIST 5385	Latin American History	
HIST 5388	Public History	
HIST 5389	Great Britain and the British Empire	
HIST 5396	Cross-Cultural Interactions	
Select additional course(s) (not previously taken) from the above HIST lists: [2]		3-6

Prescribed Electives: Political Studies		
American Politics		
Select one course from the following:		3
POLS 5330	American Politics	
POLS 5332	State Governments, Policies, and Politics	
POLS 5334	Judicial Politics	
POLS 5336	The United States Presidency	
POLS 5337	The United States Congress	
POLS 5339	American Political Parties	
POLS 5360	Seminar in American Politics	
POLS 5362	Seminar in Political Theory	
POLS 5385	Public Policy	
Comparative Politics		
Select one course from the following:		3
POLS 5319	Women in Politics	
POLS 5340	Political Attitudes & Behavior	
POLS 5364	Media & Politics	
POLS 5371	Comparative Politics	
POLS 5372	Seminar in Comparative Politics	
International Relations		
Select one course from the following:		3
POLS 5367	Seminar in International Relations	
POLS 5373	International Relations	
Select additional course(s) (not previously taken) from the above POLS lists: [2]		3-6
Total Hours		**33-39**

[1] It is strongly recommended that students contact their employer, prior to registration, to request a credentialing review for elective courses.

[2] Students must complete 18 credits in HIST and 18 credits in POLS. Depending on whether the student chooses HIST 6394 or POLS 6394 for the capstone requirement, student will need to choose either one course (3 credits) or two courses (6 credits) in this section to bring the totals to 18 credits in HIST and 18 credits in POLS.

Note: Courses listed under two requirements may only be taken once and may only fulfill one requirement.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in History and Political Studies is designed to provide graduates with the following marketable skills:

- Problem solving/research: critical, analytical, and evaluative thinking, while building an informed belief system by synthesizing knowledge and posing questions about different societies and cultures.
- Communication/presentation: professional expression of ideas through written, verbal, and visual work.
- Leadership/teaching: effective engagement in local, state, regional, national, and global communities while promoting civil discourse and civic participation.

College of Osteopathic Medicine

Administrative Officers

Title/Department	Officer
Dean	Thomas J. Mohr, MS, DO, FACOI, FAOGME tjm108@shsu.edu
Senior Associate Dean for Clinical Integration	Robert E. Suter, DO res076@shsu.edu; (936) 202-5219
Senior Associate Dean for Educational Affairs	Courtney West, PhD west@shsu.edu; (936) 202-5257
Associate Dean for Graduate Medical Education and Designated Institutional Official	Gretchen Holmes, PhD gnh009@shsu.edu; (936) 202-5236
Associate Dean for Osteopathic Integration	Dennis Rau, Jr., DO dcr039@shsu.edu; (936) 202-5237
Assistant Dean for Clinical Affairs	Craig Boudreaux, DO c.boudreaux@shsu.edu; (936) 202-5231
Department of Clinical Anatomy	Mario Loomis, MD, Chair mxl107@shsu.edu; (936) 202-5220
Department of Molecular and Cellular Biology	Yuan Zhao, PhD, Chair yuan.zhao@shsu.edu; (936) 202-5260
Department of Osteopathic Principles and Practice	Dennis Rau, Jr., DO, Chair dcr039@shsu.edu; (936) 202-5237
Department of Physiology and Pharmacology	Petra Rocic, PhD, Chair pxr037@shsu.edu
Department of Primary Care and Clinical Medicine	Brent Sanderlin, DO, FACOFP, FAAFP, Chair b.sanderlin@shsu.edu; (936) 202-5238

About the College

The College of Osteopathic Medicine consists of the following offices and departments.

Dean's Office

- Clinical Affairs
- Graduate Medical Education
- Osteopathic Integration
- Educational Affairs
- COM Operations

Academic Departments and Offices

- Department of Primary Care and Clinical Medicine
- Department of Osteopathic Principles and Practice
- Office of Clinical Skills
- Department of Physiology and Pharmacology
- Department of Molecular and Cellular Biology
- Department of Clinical Anatomy
- Office of Clinical Education
- Office of Assessment, Evaluation, and Accreditation
- Office of Program Support and Resources
- Office of Medical Student Affairs
- Office of Research

Mission

The mission of the Sam Houston State University (SHSU) College of Osteopathic Medicine (COM) is to prepare students for the degree of Doctor of Osteopathic Medicine with an emphasis toward primary care and rural practice, to develop culturally aware, diverse and compassionate physicians,

who follow osteopathic principles, that are prepared for graduate medical education, and will serve the people of Texas with professionalism and patient-centered care.

A significant part of the mission of the COM is to increase the physician workforce in the eastern region of Texas and to increase access to primary care. The COM will accomplish this by recruiting qualified applicants from areas to which they would likely want to return and establish their practice.

Mission Creation and Revision
Created: January 16, 2017; Revised: March 9, 2018; July 5, 2018; Reviewed: Faculty and Staff - February 10, 2023; Student Leadership - March 6, 2023

Contact Information

Phone: (936) 202.5202
Fax: (936) 202.5260

925 City Central Ave
Conroe, TX 77304

Website

College of Osteopathic Medicine

Highlights

SHSU-COM has been awarded "Accreditation with Exceptional Outcomes" from the Commission on Osteopathic College Accreditation (COCA). This status confers 10 years of accreditation through 2034. SHSU-COM is the only new college of osteopathic medicine to have ever achieved Exceptional Outcomes in their initial accreditation cycle.

- The SHSU College of Osteopathic Medicine is the eighth college of the university and only the third college of osteopathic medicine in the state.
- As an official Texas State Medical School with state support, SHSU-COM is one of the most affordable colleges of osteopathic medicine in the nation.
- Last year, student doctors achieved a 99.1% first time pass rate on the national licensure board exam placing SHSU-COM as one of the top three COMs in the country.
- The state-of-the-art medical school facility is 108,000 square feet with garage parking on 7.3 acres in Conroe, Texas.
- SHSU's history of contributing to the well-being of the state started over 139 years ago, when the university was established to respond to the need for trained teachers. At the time, state leaders recognized that education was key to improving quality of life and the subsequent prosperity of Texas.
- Today, the university is responding to another critical workforce demand, where education, again, is key to elevating the quality of life for millions of Texans. This led to the development of the College of Osteopathic College, which shares the mission of changing the medical workforce in Eastern Texas by improving access to primary care, general surgery, and mental health, to name a few of the critical shortages.

Doctoral Degree

- Doctor of Osteopathic Medicine (p. 1715)

Dual Degree Program

- Doctor of Osteopathic Medicine and Master of Public Health (p. 1785)

Scholarships

The SHSU-COM is developing scholarship opportunities accessed through the Scholarships4kats (https://www.shsu.edu/dept/financial-aid/aid/scholarships/) application process.

Other

SHSU-COM has programs and organizations that support students' integration into medical school and provide networking and service opportunities for students and faculty.

Doctor of Osteopathic Medicine

The Doctor of Osteopathic Medicine degree program is focused on improving the physician workforce in the Eastern region of Texas and throughout the nation. The Sam Houston State University College of Osteopathic Medicine (SHSU-COM) emphasizes primary care and other needed specialties to develop culturally aware and compassionate physicians who follow the principles of osteopathic medicine.

The D.O. program follows a vertically and horizontally integrated, biomedical sciences and clinical, systems-based curriculum. The program utilizes multiple teaching modalities such as lecture, small group, case-based learning, clinical practice, simulation, and active learning to promote deep and complete mastery of the concepts. Research, ethics, statistics, and osteopathic principles and practices are embedded within all realms of clinical and pre-clinical education. The clinical years are spent in community-based settings at community hospitals, rural and critical access hospitals, and clinics that provide care to underserved populations, including community mental health services and federally qualified health centers (FQHCs). Providing educational experiences in these facilities demonstrate the importance of caring for Texas populations in need of physicians. Students complete this program as lifelong learners prepared with the knowledge and skills needed to be successful in residency and practice.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/academics/osteopathic-medicine/prospective-students/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Doctor of Osteopathic Medicine program must complete the following steps.

1. Complete the Texas Medical & Dental Schools Application Service (TMDSAS) (https://www.tmdsas.com/) online application (primary application) by **5:00 p.m. CST, Oct. 1st**.
2. Submit the following to TMDSAS to complete the application file:
   a. Application Fee – non-refundable fee of $185.00 required to begin processing.
   b. Official Transcripts - not required at time of submission, due by **Oct. 15th**.
   c. Letters of Evaluation and/or Health Professions Evaluations (HPE)
   d. Official MCAT Score Report
   e. Spring grades of application year (or Winter of application year, if on quarter system)
3. Complete the Sam Houston State University – College of Osteopathic Medicine (SHSU-COM) online Supplemental Application and non-refundable application fee of $75.00 by **5:00 p.m. CST, Nov. 15th**.
   a. Applicants will receive an email invitation from SHSU-COM to complete the supplemental application after their completed primary application has been received from TMDSAS. The supplemental application and fee are required for consideration.

Note: Incomplete applications will not be reviewed.

The D.O. Program seeks promising students from all backgrounds and is focused on recruiting qualified applicants from areas to which they would likely want to return and establish their practice.

Bachelor's degree from a U.S. College or University accredited by a Texas Higher Education Coordinating Board recognized accrediting body. (Some courses may be in progress, but must be completed prior to enrollment.)

1. Complete the following courses with no grade below "C" (2.0 on a 4.0 scale):
   a. English, 6 credit hours
   b. Biology, including laboratory; 8 credit hours
   c. Physics, including laboratory; 8 credit hours
   d. General Chemistry, including laboratory; 8 credit hours
   e. Organic Chemistry, including laboratory; 8 credit hours
      i. Biochemistry can be substituted for Organic Chemistry II
   f. Mathematics, 6 credit hours; 3 hours must be Statistics
2. Meet minimum technical skills and abilities.
3. Pass a criminal background check prior to enrollment.

Code	Title	Hours
Doctor of Osteopathic Medicine		
Required Courses		
Pre-Clerkship (Years I and 2)		
ANAT 7801	Clinical Anatomy	8
CMED 7304	Clinical Medicine 4	3
CMED 7402	Clinical Medicine 2	4
CMED 7403	Clinical Medicine 3	4
CMED 7201	Clinical Medicine 1	2

MEDS 7320	Systems Integration	3
MEDS 7404	Renal & Genitourinary	4
MEDS 7405	Hematopoietic System	4
MEDS 7504	Skin & Skeletal Muscle	5
MEDS 7508	Endocrine & Reproductive	5
MEDS 7607	GI System & Nutrition	6
MEDS 7802	Neurologic & Behavior	8
MEDS 7803	Medical Microbiology and Immune System	8
MEDS 7806	Cardiovascular & Respiratory	8
OSTM 7301	Osteopathic Manipulative Medicine 1	3
OSTM 7302	Osteopathic Manipulative Medicine 2	3
OSTM 7303	Osteopathic Manipulative Medicine 3	3
OSTM 7304	Osteopathic Manipulative Medicine 4	3
REBM 7301	Research and Evidence-Based Medicine	3
SFOM 7801	Scientific Foundations	8
Clerkship (Clinical Years 3 and 4)		
CLIN 7010	Elective Clerkship (8 Blocks)	32
CLIN 7401	General Surgery Clerkship	4
CLIN 7402	Adult Inpatient Medicine Clerkship (1 Block)	4
CLIN 7403	Emergency Medicine Clerkship	4
CLIN 7404	Psychiatry Clerkship	4
CLIN 7405	Family Medicine Clerkship	4
CLIN 7406	Pediatrics Clerkship	4
CLIN 7407	Ob/Gyn Clerkship (1 Block)	4
CLIN 7408	Rural & Underserved Medicine Clerkship	4
CLIN 7414	Medicine Selective Clerkship (2 Blocks)	8
CLIN 7409	Adult Inpatient Med-II	4
CLIN 7415	Surgery Selective Clerkship (2 Blocks)	8
CLIN 7411	Womens Health and Wellness	4
MEDS 7318	Clinical Clerkship Preparation	3
OSTM 7233	3rd and 4th Year Longitudinal OMM Clerkship	6
Total Hours		**192**

Department of Clinical Anatomy

Chair: Mario Loomis, MD (mxl107@shsu.edu)

Contact Information: Lisa Pabst, Administrative Associate III - 936.202.5234

Website: Department of Clinical Anatomy (https://www.shsu.edu/academics/osteopathic-medicine/divisions/)

Mission

The mission of the department of Clinical Anatomy is to provide students with foundational training essential to understanding medical applications involving all body systems. Through use of cadaveric-based dissection, innovative teaching methods, and interactive small group learning, the department equips students with the knowledge, skills, and attitudes for a career in medicine and lifelong learning.

Academic Programs

- Doctor of Osteopathic Medicine (DO) (p. 1715)

Director/Chair: **Mario G Loomis**

Sefik T Gokaslan, MD (stg016@shsu.edu), *Professor of Practice in Pathology*, *Department of Clinical Anatomy*, MD, Univ of Istanbul

Jamie H Hinojosa, MD (jaime.hinojosa@shsu.edu), *Assistant Professor of Anatomy and Histology*, *Department of Clinical Anatomy*, MD, Univ of Texas HSC-Houston; MS, Lincoln Memorial University; BS, Univ of Texas-Brownsville

Mario G Loomis, MD (mxl107@shsu.edu), *Associate Professor of Anatomy and Chair, Clinical Anatomy*, *Department of Clinical Anatomy*, MD, Univ of Vermont&State Agr Col; AB, Cornell University

David Joseph Moeller, MD (djm087@shsu.edu), *Assistant Professor of Practice in Radiology*, *Department of Clinical Anatomy*, MD, Univ of Texas Medical Branch; MS, Saint Mary's College; BS, St Edwards University

George Prada, MD (gxp073@shsu.edu), *Assistant Professor of Anatomical Sciences*, *Department of Clinical Anatomy*, MD, Universidad Autonoma of Guadalajara; BS, Univ of Illinois-Chicago

Robert W. Rice, PHD (rgs_rwr@shsu.edu), *Assistant Professor of Practice in Anatomical Sciences*, *Department of Clinical Anatomy*, PHD, New York Medical College; MS, New York Medical College; AB, Cornell University

Dennis C Wooten, PHD (dcw032@shsu.edu), *Assistant Professor of Pathology*, *Department of Clinical Anatomy*, PHD, Purdue University; MD, Univ of Texas HSC-Houston; BS, Clark Atlanta University

Department of Molecular and Cellular Biology

Chair: Yuan Zhao, PhD (yxz028@shsu.edu)

Contact Information:
Leslie Knappen (lek020@shsu.edu)
936.202.5321

Website: Department of Molecular and Cellular Biology (https://www.shsu.edu/academics/osteopathic-medicine/divisions/biomedical-sciences/molecular-cellular-biology.html)

Mission

The mission of the Department of Molecular and Cellular Biology is to prepare the next generation of osteopathic physicians through engagement with scholars and educators dedicated to discovering, developing, and disseminating knowledge of molecular and cellular biology.

Academic Programs

- Doctor of Osteopathic Medicine (DO) (p. 1715)

Director/Chair: **Yuan Zhao**

Jacob Thomas Cross, MD (jtc067@shsu.edu), *Professor of Microbiology*, *Department of Molecular & Cellular Biology*, MD, Tulane University; MPH, Tulane University; BS, Tulane University

Gergana Mircheva Deevska, PHD (gmd020@shsu.edu), *Associate Professor of Biochemistry and Molecular Biology*, *Department of Molecular & Cellular Biology*, PHD, The High Commission of Attestation, Bulgaria; MSC, St. Kliment Ohridksi Sofia University; BSC, St. Kliment Ohridksi Sofia University

Hatem Abdelrahman Omar Elshabrawy, PHD (hxe007@shsu.edu), *Assistant Professor of Microbiology, Immunology and Pathology*, *Department of Molecular & Cellular Biology*, PHD, Univ of Illinois-Chicago; BPHARM, Cairo University

Owen Joseph Kelly, PHD (ojk003@shsu.edu), *Assistant Professor of Nutrition*, *Department of Molecular & Cellular Biology*, PHD, University College Cork; BSC, University College Cork

Sureni Visaka Mullegama, PHD (svm013@shsu.edu), *Assistant Professor of Genetics*, *Department of Molecular & Cellular Biology*, PHD, Virginia Commonwealth Univ; BS, Univ of Minnesota-Twin Cities

Vinoth Kumar Sittaramane, PHD (vks007@shsu.edu), *Professor of Biological Sciences*, *Department of Molecular & Cellular Biology*, PHD, Univ of Missouri-Columbia; DVM, Pondicherry University; MS, Indian Veterinary Research Institute

Yuan Zhao, PHD (yxz028@shsu.edu), *Associate Professor of Microbiology and Immunology; Acting Chair, Molecular/Cell*, *Department of Molecular & Cellular Biology*, PHD, Univ of Louisville; MS, Univ of Louisville; BS, East China Normal Un

Department of Osteopathic Principles and Practice

About

Chair
Associate Dean of Osteopathic Integration, Dennis C. Rau Jr., DO (dcr039@shsu.edu)

Contact Information
SJ Ramirez, Administrative Associate
936-202-5243
COM Office: 320F

Website: Department of Osteopathic Principles and Practice (https://www.shsu.edu/academics/osteopathic-medicine/divisions/)

Mission

The mission of the SHSU-COM Department of Osteopathic Principles and Practices is to foster and support the use and integration of osteopathic philosophy and hands-on techniques for the delivery of quality, patient-centered medical care.

Academic Programs

- Doctor of Osteopathic Medicine (p. 1715)

Juanita M Brown, DO (jmb228@shsu.edu), *Associate Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Nova Southeastern University; BS, Florida Southern College

Peter Andrew Curka, DO (pac027@shsu.edu), *Associate Professor of Osteopathic Manipulative Medicine*, *Department of Osteopath Principles & Pract*, DO, University of New England; BS, Boston College

Patrick Rhodes Davis, PHD (davisp@shsu.edu), *Associate Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, PHD, East Carolina Univ; BS, Brigham Young University

Simeon Sreyas Nittala, DO (sxn067@shsu.edu), *Assistant Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Midwestern Univ; BS, Univ of Illinois-Chicago

Gary L Rhame, DO (glr024@shsu.edu), *Assistant Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Univ of N. Texas Hlth Sci Cnt; BS, Stephen F Austin University

Ava Cheryl Stanczak, DO (acs143@shsu.edu), *Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Univ of North TX Hlth Sci Cntr; BA, Univ of North Texas

Department of Physiology and Pharmacology

Chair: Petra Rocic (pxr037@shsu.edu), PhD

Contact Information
Martha Mendiola, Administrative Associate
(936) 202-5315

Website: D (https://www.shsu.edu/academics/osteopathic-medicine/divisions/)epartment of Physiology and Pharmacology

Mission

The mission of the Department of Physiology and Pharmacology is to educate and empower medical scholars with transformative critical thinking aimed at applying physiology and pharmacology principles and practices to provide excellence in patient care.

Academic Programs

Doctor of Osteopathic Medicine (DO) (p. 1715)

Hosam Gharib Abdelhady, PHD (hosam.abdelhady@shsu.edu), *Associate Professor of Pharmacology*, *Department of Physiology & Pharmacology*, PHD, Univ of Nottingham; MPHARM, Cairo University; BPHARM, Al-Fateh Univ of Medical Sci

Rebecca Kirstin Andrews Dickert, MD (rebecca.andrewsdickert@shsu.edu), *Assistant Professor of Physiology*, *Department of Physiology & Pharmacology*, MD, Michigan State University; BA, Univ of Chicago

Marcos Esteban Garza Madrid, PHD (marcos.garza@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, Instituto Tecnologico de Monterrey; MD, Instituto Tecnologico de Monterrey

Mihail Iliev Mitov, PHD (mim034@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, The High Commission of Attestation, Bulgaria; MSC, St. Kliment Ohridksi Sofia University; BSC, St. Kliment Ohridksi Sofia University

Petra Rocic, PHD (pxr037@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, Univ of Alabama-Birmingham; PHD, Univ of Alabama-Birmingham; BA, Oberlin College

Sahar Ahmed Soliman, PHD (sxs187@shsu.edu), *Assistant Professor of Pharmacology*, *Department of Physiology & Pharmacology*, PHD, Univ of Georgia; BPHARM, Ain Shams University

Department of Primary Care and Clinical Medicine

About

Chair

Brent W. Sanderlin, DO (bws025@shsu.edu)
936-202-5238

Contact Information

Haley Ford-Wilcox, MS (haley.ford-wilcox@shsu.edu)

Administrative Associate II
936-202-5290

Website: Department of Primary Care and Clinical Medicine (https://www.shsu.edu/academics/osteopathic-medicine/divisions/)

Mission

The mission of The Department of Primary Care and Clinical Medicine is to provide the support, education, and training to create physicians capable of providing compassionate, high quality, personalized, and efficient care across all spectrums of human health: body, mind, and spirit.

Academic Programs

- Doctor of Osteopathic Medicine (p. 1715)

Director/Chair: **Brent W Sanderlin**

Craig S Boudreaux, DO (c.boudreaux@shsu.edu), *Assistant Professor of Family Medicine; Assistant Dean, COM*, *Department of Primary Care & Clinical Medi*, DO, Univ of North TX Hlth Sci Cntr; BBA, Univ of Texas At Austin

Ouida M Collins, MD (omc007@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, MD, Meharry Medical College; MPH, Univ of Texas HSC-Houston; BS, Xavier University of Louisiana

Lesley Ann Gardiner, MD (lesley.gardiner@shsu.edu), *Assistant Professor of Pediatrics*, *Department of Primary Care & Clinical Medi*, MD, Texas A&M University; BS, Texas A&M-Corpus Christi

Janet Lynn Gregory, DO (jlg160@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of N. Texas Hlth Sci Cnt; BA, Univ of Louisiana-Monroe

Valerie Christine Hopper, DO (vxh026@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of N. Texas Hlth Sci Cnt; BS, University of Tulsa

Glenda Read Hsiao, MD (grh031@shsu.edu), *Assistant Professor of Primary Care*, *Department of Primary Care & Clinical Medi*, MD, Un of Tx-HSC At Houston; BS, Baylor University

Victor Kaifu Hsiao, MD (vkh003@shsu.edu), *Assistant Professor of Primary Care*, *Department of Primary Care & Clinical Medi*, MD, Un of Tx-HSC At Houston; BS, Baylor University

Townes Randolph Leigh, DO (trl027@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, DO, West Virginia School Osteo Med; BS, Univ of Tennessee-Martin

Karen Lee Nelson, PHD (kln005@shsu.edu), *Assistant Professor of Clinical Psychology*, *Department of Primary Care & Clinical Medi*, PHD, Univ of Houston-Main; MED, Univ of Houston-Main; BA, Southwestern University

Stephanie Kathryn Potter, MD (skp037@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Baylor College of Medicine; BS, Texas A&M University

Megan Becker Powell, MD (stdmdb26@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Univ. of Texas-Med-Galveston; BS, Sam Houston State University

Brent W Sanderlin, DO (b.sanderlin@shsu.edu), *Associate Professor of Family Medicine; Chair, Primary Care & Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of North TX Hlth Sci Cntr; BS, Texas State Univ-San Marcos

Elizabeth Harris Sargent, DO (ehs008@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, William Carey University; BA, Univ of Mississippi

Gregg Stephen Silberg, DO (gss023@shsu.edu), *Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Kansas City Univ of Med&BioSci; MBA, Univ of Tennessee-Knoxville; BS, Drake University

Peggy Hejtmancik Taylor, MD (pht005@shsu.edu), *Assistant Professor of Obstetrics and Gynecology*, *Department of Primary Care & Clinical Medi*, MD, Univ of Texas HSC-Houston; MS, Sam Houston State University; BA, Texas A&M University

Kimberly M Waaso, DO (kmw135@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Kansas City Univ of Med&BioSci; BS, Michigan State University

Candace Lynn Walkley, MD (clw117@shsu.edu), *Assistant Professor of Internal Medicine*, *Department of Primary Care & Clinical Medi*, MD, Univ of Texas SW Medical Cente; BS, Univ of Texas-Arlington

Courtney Ann West, PHD (west@shsu.edu), *Asst Dean of Osteopathic Medicine for Educational Development, Adjunct Faculty*, *Department of Primary Care & Clinical Medi*, PHD, Texas A&M University; MED, Sam Houston State University; BS, Sam Houston State University

Natasha Shah Williams, MD (nxs059@shsu.edu), *Assistant Professor of Pediatrics*, *Department of Primary Care & Clinical Medi*, MD, Texas A&M University; BS, Univ of Texas At Austin

Megan Leigh Woolford, MD (mlw090@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, MD, Baylor College of Medicine; BS, Texas A&M University

Paul W Zarutskie, MD (pwz001@shsu.edu), *Associate Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Drexel University; BS, Duke University; BS, Duke University

College of Science and Engineering Technology

Administrative Officers

Title/Department	Officer
Dean	Melinda Holt, Ph.D. coset@shsu.edu
Associate Dean for Curriculum & Assessment	Dustin Jones, Ph.D. dljones@shsu.edu; (936)-294-1945
Associate Dean for Graduate Programs & Research	Li-Jen Lester, Ed.D. lys001@shsu.edu; (936) 294-1326
School of Agricultural Sciences	Mark Anderson, Ph.D., Chair mjanderson@shsu.edu; (936) 294-3367
Department of Biological Sciences	Aaron Lynne, Ph.D., Chair aaronlynne@shsu.edu; 936-294-1544
Department of Chemistry	Donovan C. Haines, Ph.D., Chair dch009@shsu.edu; (936) 294-1530
Department of Computer Science	Bing Zhou, Ph.D., Chair bxz003@shsu.edu; (936) 294-1590
Department of Engineering Technology	Faruk Yildiz, Ph.D., Chair fxy001@shsu.edu; (936) 294-3774
Department of Environmental and Geosciences	Joseph Hill, Ph.D., Chair geojoe@shsu.edu; (936) 294-1560
Department of Mathematics and Statistics	Damon Hay, Ph.D., Chair dmh035@shsu.edu; (936) 294-4859
Department of Physics and Astronomy	Joel W. Walker, Ph.D., Chair jwalker@shsu.edu; (936) 294-4803

Mission

The College of Science and Engineering Technology (COSET) offers quality undergraduate, graduate, and professional-level STEM education that is flexible, student-centered, innovative, and engaged with the community. COSET fosters student-faculty relationships focused on career readiness, research opportunities, and professional and personal development.

Vision

The College of Science and Engineering Technology (COSET) prepares a diverse population of STEM leaders to enrich their communities and professions and solve critical STEM challenges facing our world.

Contact Information
College of Science and Engineering Technology (coset@shsu.edu)
Phone: (936) 294-1401
Lee Drain Building 200

Website
College of Science and Engineering Technology (http://www.shsu.edu/academics/science-and-engineering-technology/)

Highlights

The College of Science and Engineering Technology:

- Offers small classes and experiential learning opportunities in state-of-the-art facilities, including Gibbs Ranch, Pineywoods Environmental Research Laboratory, Dominey Observatory, Sam Houston State Natural History Collections, Sam Houston State University Microscopy Center, and the Harrell Agricultural Engineering Technology Center;
- Provides unique place-based learning and workforce-based courses taught by nationally and internationally recognized faculty;
- Provides student research opportunities funded by the National Science Foundation, U.S. Department of Defense, the U.S. Department of Agriculture, and more;
- Maintains ABET accredited programs in Computer Science and Engineering Technology, assuring graduates are prepared to enter the global workforce;
- Houses the Sam Houston State University Center of Excellence in Digital Forensics; and

- Offers learning and professional development support through a variety of programs in the College of Science and Engineering Technology STEM Center.

Master's Degrees

Departments	Programs
Agricultural Sciences	Agriculture, MS
Agricultural Sciences	Sustainable Agriculture and Food Environment, MAg
Biological Sciences	Biology, MA
Biological Sciences	Biology, MS
Chemistry	Chemistry, MS
Computer Science	Computing and Data Science, MS
Computer Science	Digital and Cyber Forensic Science, PhD
Computer Science	Digital Forensics, MS
Computer Science	Information Assurance and Cybersecurity, MS
Engineering Technology	Engineering Technology and Management, MS (as of Spring 2026)
Environmental and Geosciences	Geographic Information Systems, MS
Mathematics and Statistics	Mathematics, MA
Mathematics and Statistics	Mathematics, MS
Mathematics and Statistics	Statistics and Data Science, MS

Certificates

Departments	Programs
Agricultural Sciences	Sustainable Agriculture
Computer Science	Cyber Security
Computer Science	Data Assurance
Computer Science	Digital Investigation
Environmental and Geosciences	Geographic Information Systems

School of Agricultural Sciences

About

Chair: Mark J Anderson, Ph.D. (mjanderson@shsu.edu)

Contact Information: (936) 294-1216 or mjanderson@shsu.edu

Graduate Program Coordinator: Tim Pankkuk, Ph.D (agr_trp@shsu.edu).

Contact Information
(936) 294-1216 or agr_trp@shsu.edu

Website
The School of Agricultural Sciences (http://www.shsu.edu/academics/agricultural-sciences-and-engineering-technology/)

Highlights

The graduate program in agricultural sciences is designed to further the professional competence of those individuals engaged in production agriculture, careers in agricultural and related agencies, businesses and industries, and/or agricultural education and extension.

The Pirkle Engineering Technology Center provides specialized classrooms and an animal science research lab to service the Agricultural Sciences program with four additional support facilities with working laboratories. The I-45 Agriculture Center is home to the Meat Science Lab. The William R. Harrell Engineering Technology Center provides excellent advanced teaching and research opportunities in the areas of power and machinery, electrification, geometrics, soil and water conservation, irrigation, drainage, landscaping, bio-fuels, and wood/metal construction and fabrication. The 1620+ acre Gibbs Ranch is home to purebred and crossbred beef cattle herds, a meat goat flock, and additional plant, soil, and animal resources used for instructional and research purposes. A new Agricultural Center is currently being built at Gibbs Ranch. Phase I was completed in Fall 2023 and includes a new Plant & Soil Sciences head house, two modern greenhouses, a learning center, and a covered multi-purpose arena with an attached stall barn. Phase 2 is in progress and includes a new equestrian center and meats/food technology laboratory.

Career Opportunities

Approximately twenty percent of our population is involved in occupations directly related to agriculture. Sectors such as production, banking, marketing, teaching, processing, and service in governmental agencies rely on the productivity of modern agriculture in meeting the daily needs of society.

- Master of Agriculture in Sustainable Agriculture and Food Environment (p. 1728)
- Master of Science in Agriculture (p. 1729)
- Graduate Certificate in Sustainable Agriculture (p. 1731)

Scholarships

The department is pleased to have various scholarships available to graduate students. Scholarships are usually one-time awards and are not automatically renewable. A student may reapply in subsequent years if eligibility requirements are met. Students MUST be registered for six or more hours in Agriculture or related courses each semester or forfeit the scholarship for that semester.

The Scholarship4Kats (http://www.shsu.edu/dept/financial-aid/scholarships/) program must be used to apply for departmental scholarships. Please note that application and admittance to the University is required prior to being able to access Scholarship4Kats. The program enables students to apply for all scholarships for which they are eligible, including those outside the Department of Agricultural Sciences. The deadline for departmental scholarships is November 1; non-departmental scholarship deadlines vary.

Contact
Danhong Chen (dxc062@shsu.edu), (kjs015@shsu.edu) Ph.D.
School of Agricultural Sciences
PO Box 2088
Huntsville, TX 77341
(936) 294-1214, dxc062@shsu.edu

Abbas Aboohamidi, PHD (axa432@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MA, Texas Tech University; BBA, Texas A&M-Corpus Christi

Mark J Anderson, PHD (mjanderson@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Iowa State University; MS, Texas Tech University; BS, Texas Tech University

Marcy Miller Beverly, PHD (agr_mmb@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Alisha N Bullion, MS (anb035@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Danhong Chen, PHD (dxc062@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Penn State Un-Univ Park; PHD, Penn State Un-Univ Park; MA, Southeast University; BA, Nanjing Agicultural University

Richard Kirby Ford, EDD (rkf006@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, EDD, Texas A&M University; MS, Texas A&M-Kingsville; BS, Texas A&M University

Kristie L Franks, MS (stdkxr14@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Mark S Hainline, PHD (msh004@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MS, Texas Tech University; BS, Sam Houston State University

Carly Ann Hoffmann, PHD (cahoffmann@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas Tech University; BS, Texas A&M University

Lonna Ann Marie Holland, MS (lah045@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Kaitlin Ann Hopkins, PHD (kah147@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Stephen F Austin University; BS, Stephen F Austin University

Stanley F. Kelley, PHD (sfkelley@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

James Victor Landrum, PHD (jvl016@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Texas At Austin; MS, Univ of Southern Mississippi; BS, Mississippi State University

Robert Wayne Mcqueen, MS (rwm021@shsu.edu), *Assistant Professor of Practice of Wildlife Management*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Eastern Kentucky University

Michael Copeland Moore, DVM (mcm014@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, DVM, Texas A&M University; BS, Texas A&M University; BS, Univ of Texas Medical Branch

Kristin Leigh Nicholson, PHD (kln017@shsu.edu), *Assistant Professor of Practice of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Timothy R. Pannkuk, PHD (agr_trp@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Brittany Leigh Paris, PHD (blp054@shsu.edu), *Assistant Professor of Animal Science*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Chad Allen Reynolds, PHD (car020@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Missouri-Columbia; MS, Sam Houston State University; BS, Sam Houston State University

Philip Ryan Saucier, MS (ryansaucier@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Shyam Sivankutty Nair, PHD (shyam.nair@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MSC, Kerala Agricultural University; BSC, Kerala Agricultural University

Kyle J Stutts, PHD (kjs015@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

James D Sugg, PHD (jds233@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Maureen Victoria, PHD (mxv100@shsu.edu), *Assistant Professor of Practice in Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Univ of Missouri-Columbia; BS, Texas State Univ-San Marcos

Marsha Clark Wilson, MBA (mcw021@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MBA, Univ of Houston-Main; BS, Univ of Texas At Austin

Lawrence Arthur Wolfskill, PHD (wolfskill@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MBA, Texas A&M University; BS, Texas A&M University

Master of Agriculture in Sustainable Agriculture and Food Environment

The Sustainable Agriculture and Food Environment (SAFE) degree program is an online degree designed to prepare working professionals for studies in agriculture that focus on sustainable practices.

This program's curriculum explores a variety of modern agricultural pursuits framed by sustainable practices that include non-traditional and viable enterprises in agriculture, alternative value-added products, modern farming techniques, food safety, and small business marketing. It is a program ideal for small landowners, urban farmers, value-added and cottage food makers, educators, government agents, or anyone interested in local food production.

Explore about this degree at School of Agricultural Science's Graduate Degrees (https://www.shsu.edu/academics/agriculture/graduate-Programs.html).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/sustainable-agriculture-and-food-environment/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students are accepted for fall admission only. Students seeking admission to the graduate program in Sustainable Agriculture and Food Environment must submit the following to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. A bachelor's degree from an accredited baccalaureate-granting university in any field (degree need not be in Agriculture). Overall GPA of 2.5 or higher
4. A resume of professional work experience
5. A personal essay that addresses your interest in the program, post-graduation intentions, learning expectations, and current involvement in agriculture
6. Three letters of recommendation from professional references
7. Applicants from non-English speaking countries must present a score of at least 550 on the paper version, 213 on the computer version, or 79 on the internet-based version of the Test of English as a Foreign Language (TOEFL).

A holistic review of each student's application file will be completed on a competitive basis.

This program's thirty-six hour curriculum explores a variety of modern agricultural pursuits framed by sustainable practices that include non-traditional and viable enterprises in agriculture, alternative value-added products, modern farming techniques, food safety, and small business marketing. It is a program ideal for small landowners, urban farmers, value-added and cottage food makers, educators, government agents, or anyone interested in local food production.

Code	Title	Hours
Master of Agriculture in Sustainable Agriculture and Food Environment		
Specified Courses		
SAFE 5311	Advanced Agriculture & Food Entrepreneurship	3
SAFE 5371	Alternative Agriculture Enterprises	3
Prescribed Electives		
Select ten courses from the following:		30
AGRI 5064	Agricultural Internship	
AGRI 5096	Independent Study	
AGRI 5360	Contemporary Agricultural Business Issues	
AGRI 5362	Principles of Crop Protection	
AGRI 5394	Applied Horticultural Science	
SAFE 5312	Agriculture Sales and Communication	
SAFE 5313	Agritourism	
SAFE 5331	Sustainable Energy & Resources	
SAFE 5351	Agricultural Advocacy	
SAFE 5372	Diversified Animal Production	
SAFE 5373	Food Safety and Regulation	
SAFE 5391	Soil Ecology	
Total Hours		**36**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MAg in Sustainable Agriculture and Food Environment is designed to provide graduates with the following marketable skills:

- Demonstrate competency in communication skills and professional presentation skills of scientific knowledge.
- Demonstrate a global perspective of agriculture.
- Demonstrate scientific and technical knowledge in sustainable agriculture and related sciences.
- Critically analyze information and make informed decisions.

Master of Science in Agriculture

The graduate program in Agricultural Sciences is designed to further the professional competence of those individuals engaged in production agriculture, careers in agricultural and related agencies, businesses and industries, and/or agricultural education and extension.

The Pirkle Engineering Technology Center provides specialized classrooms and an animal science research lab to service the Agricultural Sciences program with four additional support facilities with working laboratories. The I-45 Agriculture Center is home to the Meat Science Lab. The William R. Harrell Engineering Technology Center provides excellent advanced teaching and research opportunities in the areas of power and machinery, electrification, geometrics, soil and water conservation, irrigation, drainage, landscaping, bio-fuels, and wood/metal construction and fabrication. The 1620+ acre Gibbs Ranch is home to purebred and crossbred beef cattle herds, a meat goat flock, and additional plant, soil, and animal resources used for instructional and research purposes. A new Agricultural Center is currently being built at Gibbs Ranch. Phase I was completed in Fall 2023 and includes a new Plant & Soil Sciences head house, two modern greenhouses, a learning center, and a covered multi-purpose arena with an attached stall barn. Phase 2 is in progress and includes a new equestrian center and meats/food technology laboratory.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/agriculture/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the graduate program in Agricultural Sciences must submit the following to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcripts of all college-level work, including the transcript that shows the date the undergraduate degree was conferred in agriculture, engineering technology, industrial technology, technology, or related field from an accredited four-year institution (Note: Applicants without an acceptable background in agriculture or technology must complete 12 hours of undergraduate stem work earning a minimum GPA of 3.0)
4. GRE scores
5. Two letters of recommendation from faculty in the undergraduate major field of study (not required for SHSU Agriculture graduates)

A holistic review of each student's application file will be completed on a competitive basis.

This degree is designed to be a broad-based degree, including thirty-seven hours of coursework. A minimum of fifteen hours from agri-business, agricultural education, agricultural engineering technology, animal science, equine science, and plant and soil sciences is required. In addition, the curriculum includes courses in research methodology and agricultural statistics, and graduate seminar. The remaining semester hours are designated as electives and can be taken in agriculture or from a related field. The degree is designed to provide comprehensive knowledge and capabilities in several fields of agriculture.

Plan 1 - MS in Agricultural Science - Thesis Option

Code	Title	Hours
MS in Agriculture - Thesis Option		
Required Courses		
STAT 5375		3
AGRI 6140	Graduate Seminar	1
AGRI 6350	Techniques & Interpretation of Agricultural Research	3
Prescribed Electives		
Select eight graduate courses in AGRI or approved courses in other fields		24
Thesis		
AGRI 6398	Thesis	3

AGRI 6099	Thesis	3
Total Hours		**37**

Note: The thesis option must have prior approval by the chair of the thesis committee and includes an oral comprehensive exam and thesis defense. Once enrolled in a thesis course, a student must be continually enrolled until graduation.

Plan 2 - MS in Agricultural Science - Non-thesis Option

Code	Title	Hours
MS in Agriculture - Non-thesis Option		
Required Courses		
STAT 5375		3
AGRI 6140	Graduate Seminar	1
AGRI 6350	Techniques & Interpretation of Agricultural Research	3
Prescribed Electives		
Select ten graduate courses in AGRI or approved courses in other fields		30
Total Hours		**37**

Note: The non-thesis option includes the thirty-seven hours listed above and a written or oral comprehensive capstone exam**.**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Agriculture is designed to provide graduates with the following marketable skills:

- Competency in communication skills and professional presentation skills of scientific knowledge.
- Demonstrate a global perspective of agriculture.
- Demonstrate scientific and technical knowledge in agriculture and related sciences.
- Critically analyze information and make informed decisions.

Graduate Certificate in Sustainable Agriculture

The School of Agricultural Sciences offers an online Sustainable Agriculture Graduate Certificate Program to prepare working professionals for theories and practices in sustainable agriculture with a focus on agriculture food environment and production practices.

This program's curriculum will enable students to acquire professional development and continuing education hours with specific courses in modern agricultural pursuits framed by sustainable practices with options in agricultural sales, agritourism, entrepreneurship and soil ecology. The curriculum is designed to include non-traditional and viable enterprises in agriculture and small business marketing. The program is ideal for small landowners, urban farmers, value-added and cottage food makers, educators, and government agents, seeking knowledge, professional development or continuing education credit.

Explore about this degree at: The School of Agricultural Sciences Graduate Programs (https://www.shsu.edu/academics/agriculture/graduate-Programs.html)

The program is intended to serve:

- those seeking professional development or continuing education credit;
- non-agriculture graduates who wish to gain knowledge in sustainable agriculture practices; and,
- small land owners seeking advocacy concepts, marketing models, and entrepreneurship ideas for sustainable agriculture enterprises.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/sustainable-agriculture/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Students seeking admission to the Graduate Certificate program in Sustainable Agriculture must submit the following to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. A bachelor's degree from an accredited baccalaureate granting university in any field (degree need not be in Agriculture).
4. Overall GPA of 2.5 or higher from BS conferring institution
5. A resume of professional work experience
6. A personal essay that addresses your interest in the program, post-graduation intentions, learning expectations, and current involvement in agriculture
7. Three letters of recommendation from professional references
8. Applicants from non-English speaking countries must present a score of at least 550 on the paper version, 213 on the computer version, or 79 on the internet-based version of the Test of English as a Foreign Language (TOEFL).

A holistic review of each student's application file will be completed on a competitive basis.

Code	Title	Hours
Graduate Certificate in Sustainable Agriculture		
Required Courses		
SAFE 5351	Agricultural Advocacy	3
SAFE 5371	Alternative Agriculture Enterprises	3
Prescribed Electives		
Select two courses from the following:		6
SAFE 5311	Advanced Agriculture & Food Entrepreneurship	
SAFE 5312	Agriculture Sales and Communication	
SAFE 5313	Agritourism	
SAFE 5391	Soil Ecology	
Total Hours		**12**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Sustainable Agriculture is designed to provide graduates with the following marketable skills:

- Demonstrate competency in communication skills and professional presentation skills of scientific knowledge.
- Demonstrate a global perspective of agriculture.
- Demonstrate scientific and technical knowledge in sustainable agriculture and related sciences.
- Critically analyze information and make informed decisions.

Department of Biological Sciences

About

Chair: Aaron Lynne, Ph.D. (aaronlynne@shsu.edu)

Contact Information: (936) 294-1540

Website: Department of Biological Sciences (https://www.shsu.edu/academics/biological-sciences/)

Mission

The Department of Biological Sciences is dedicated to the pursuit and dissemination of knowledge and scientific discovery in the life sciences through innovative teaching and research programs. The department strives to instill in its students the philosophy of lifelong scholarship, producing scientifically literate members of society who have the knowledge to contribute and compete in a rapidly changing world.

Highlights

The graduate program in biology is designed to prepare students for both a related doctoral program and for a career as a professional biologist in industry, government, and academia. This degree is research-oriented, requiring 26 hours of course work, and 6 hours of thesis. A diverse faculty allows students to choose among the gamut of biological research options, from studying the molecular basis of disease to investigating the ecological and evolutionary processes of macroorganisms. Faculty disciplines include:

- Cell and Molecular Biology
- Genetics
- Microbiology
- Physiology
- Forensic Science
- Systematics
- Animal Behavior
- GIS
- Ecology
- Entomology
- Botany
- Parasitology
- Ichthyology
- Herpetology
- Ornithology
- Mammalogy

Explore more about the faculty (https://www.shsu.edu/academics/biological-sciences/people/faculty.html) on the departmental website.

The Department of Biological Sciences houses greenhouses as well as laboratories with a confocal microscope, scanning electron microscope, transmission electron microscope, and modern cell and molecular biology research equipment. The department also maintains the Pineywoods Environmental Research Laboratory (PERL), a 250-acre field station that contains the Applied Anatomical Research Center, dedicated to biological and environmental research and teaching and is affiliated with the Sam Houston State University Natural History Collections.

- Master of Arts in Biology (p. 1736)
- Master of Science in Biology (p. 1738)
- See also Master of Science in Forensic Science (p. 1534) in the College of Criminal Justice (p. 1517)

Student Organizations and Activities

The Biological Sciences Graduate Student Organization (BSGSO) was established by graduate students. The purpose of the organization is to foster the interests of graduate students in the Department of Biological Sciences, to promote and support academic and social activities of interest to graduate students, and to serve as a liaison between the graduate students, faculty, staff, and other organizations. Membership in BSGSO consists of being a graduate student in the Department of Biological Sciences. Dr. Patrick Lewis is the faculty advisor for BSGSO.

Scholarships

Academic scholarships and research and travel awards are available from the Department of Biological Sciences, the College of Science and Engineering Technology, and the Graduate School. These awards include:

- The Joey Harrison Scholarship from the Department of Biological Sciences
- The College of Science and Engineering Technology Graduate Achievement Scholarship
- The College of Science and Engineering Technology Graduate Recruitment Scholarship
- The General Graduate School Scholarship
- The Graduate School Graduate Student Travel Award

Departmental scholarship information may be obtained by writing to:

Scholarships
Department of Biological Sciences
Box 2116
SHSU
Huntsville, Texas 77341-2116

Please visit the College of Science and Engineering Technology and The Graduate School websites for specifics on their application processes.

Graduate Student Support

Competitive teaching and research assistantships are available to graduate students in Biology through the Department of Biological Sciences (https://www.shsu.edu/academics/biological-sciences/) and individual faculty members. The Graduate School offers funding to graduate students to support travel to scientific meetings to present research findings. For details and application materials, contact:

Graduate Committee Chair
James Harper (jmharper@shsu.edu)
Department of Biological Sciences
Box 2116
Sam Houston State University
Huntsville, TX 77341-2116
(936) 294-1544

Details are also available at the Department of Biological Sciences (http://www.shsu.edu/academics/biological-sciences/.html).

Director/Chair: **Aaron Matthew Lynne**

Mardelle Renee Atkins, PHD (mra043@shsu.edu), *Roland Black Endowed Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Sibyl Rae Bucheli, PHD (srb009@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Ohio State University; MS, Ohio State University; BA, Hiram College

Madhusudan Choudhary, PHD (mxc017@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, McMaster University; BSC, Patna University

Jerry L. Cook, PHD (bio_jlc@shsu.edu), *Distinguished Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Colorado State Univ-Pueblo; BS, Colorado State Univ-Pueblo

Tamara J. Cook, PHD (bio_tjc@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Univ of Nebraska-Lincoln; BS, Univ of Nebraska-Lincoln

Juan D Daza Vaca, PHD (jdd054@shsu.edu), *Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Puerto Rico-Rio Piedra; MS, Univ of Puerto Rico-Rio Piedra; BS, Universidad del Valle

Jill Sayes Dewey, PHD (jsd043@shsu.edu), *Assistant Professor of Practice in Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; BS, LSU & A&M College

Anne R Gaillard, PHD (bio_arg@shsu.edu), *Adjunct Faculty; Vice Provost*, *Department of Biological Sciences*, PHD, Emory University; BS, Purdue University

Danielle Marie Goodspeed, PHD (dmg048@shsu.edu), *Visiting Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Rice University; MS, Rice University; BS, Roger Williams University; BS, Roger Williams University

James Michael Harper, PHD (jmharper@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Idaho; BS, Suny College At Geneseo

Sharmin Hasan, PHD (sxh130@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Tokyo; MS, Univ of Tokyo; BSC, Univ of Rajshahi

Anand Bahadur Karki, PHD (abk019@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, University of Tulsa; MS, Tribhuvan University; BS, Tribhuvan University

Steven David Koether, PHD (stevenkoether@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Patrick J Lewis, PHD (pjl001@shsu.edu), *Professor of Biology, Associate Dean of Honors College*, *Department of Biological Sciences*, PHD, Duke University; MS, Texas Tech University; BA, Texas Tech University

William I Lutterschmidt, PHD (bio_wil@shsu.edu), *Distinguished Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Oklahoma-Norman; MS, Southeastern Louisiana Univ.; BS, De Sales University

Aaron Matthew Lynne, PHD (aml027@shsu.edu), *Professor and Chair of Biological Sciences*, *Department of Biological Sciences*, PHD, North Dakota State University; BS, North Dakota State University

Diane L. Neudorf, PHD (bio_dln@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, York University; MSC, University of Manitoba; BSC, University of Manitoba

John B Pascarella, PHD (jbp014@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Miami; BA, Univ of Kansas; BS, Univ of Kansas; BS, Univ of Kansas

Todd P Primm, PHD (tprimm@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Christopher P Randle, PHD (cpr003@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Ohio State University; BA, Hiram College

Monte L. Thies, PHD (bio_mlt@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Oklahoma State University; MS, Univ of Central Oklahoma; BS, Univ of Central Oklahoma

Justin K. Williams, PHD (bio_jkw@shsu.edu), *Professor of Biology and Assistant Dean, Honors College*, *Department of Biological Sciences*, PHD, Univ of Texas At Austin; BA, Univ of Texas At Austin

Jeffrey R Wozniak, PHD (jrw034@shsu.edu), *Associate Professor of Biology*, *Department of Biological Sciences*, PHD, Florida Int'L Univ; BS, Allegheny College

Master of Arts in Biology

The Master of Arts in Biology is a non-thesis program primarily designed for secondary education teachers who wish to increase their competency in the field of biology. The program allows students to elect a twelve hour secondary field that logically supports the biology major. Students who plan to pursue doctoral studies are strongly encouraged to pursue the M.S. in Biology (p. 1738).

Applicants seeking admission to the graduate program in biology must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

1. Graduate Application (https://www.shsu.edu/apply/)
2. Application Fee (https://www.shsu.edu/dept/graduate-admissions/application-fee.html)
3. Official transcript(s) of all previous college work
4. Two letters of recommendation from faculty in the student's major at the undergraduate degree-granting institution
5. Statement of Purpose outlining the student's goals in the program

To be granted regular admission, applicants must have an undergraduate degree in biology or a related field. Applicants having an undergraduate degree in a discipline other than biology must successfully complete the equivalent of an undergraduate minor in the biological sciences before being considered for regular admission.

Applicants from non-English speaking countries must also present a score of at least 78 on the internet-based (iBT), 550 on the paper version (PBT), or 213 on the computer version (CBT) of the Test of English as a Foreign Language (TOEFL). In addition, International Students are required to have an SHSU Biological Sciences Graduate Faculty member write a letter of support for their application to the program.

More detailed information on admission, competitive GRE scores, and undergraduate GPA can be found in the Graduate Student Handbook (https://www.shsu.edu/academics/biological-sciences/programs/graduate-biology-program.html).

There are two different plans leading to the Master of Arts in Biology. Plan 1 requires 32 semester hours of graduate credit in biology. In Plan 2, students take 26 hours in biology with 12 hours of supporting coursework in a chosen minor for a total of 38 hours of graduate credit.

All graduate students are required to pass a comprehensive examination on general biological concepts based on their coursework. The nature of this examination, which may be written and/or oral, will be determined by the student's comprehensive exam committee. Students must be enrolled the semester they take the comprehensive examination.

In addition, a literature-based review paper is prepared in consultation with the student's faculty advisor. Students must defend the literature-based review before their advisor committee and present it to the faculty in seminar format.

Plan 1 - M.A. in Biology

Code	Title	Hours
Master of Arts in Biology (Plan 1)		
Specified Course		
BIOL 5301	Seminar in Biology Research I	3
BIOL 5095	Independent Graduate Study in Biology	2-3
or BIOL 5394	Special Topics In Graduate Biology	
Electives		
Select nine graduate courses in BIOL in consultation with the Graduate Advisor, excluding Thesis courses		27
Total Hours		**32-33**

Plan 2 - M.A. in Biology with a Secondary Field

Code	Title	Hours
Master of Arts in Biology (Plan 2)		
Specified Course		
BIOL 5301	Seminar in Biology Research I	3
BIOL 5095	Independent Graduate Study in Biology	2-3
or BIOL 5394	Special Topics In Graduate Biology	
Electives		
Select seven graduate courses in BIOL in consultation with the Graduate Advisor, excluding Thesis courses		21
Secondary Field		

Select four graduate courses in an approved secondary field in consultation with the Graduate Advisor	12
Total Hours	**38-39**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Biology is designed to provide graduates with the following marketable skills:

- Master the depth of knowledge required for a master's degree in biological sciences.
- Demonstrate critical thinking.
- Communicate effectively.
- Work collaboratively.

Master of Science in Biology

The Master of Science in Biology is designed to prepare students for both a related doctoral program and for a career as a professional biologist in industry, government, and academia. This degree is research-oriented, requiring two seminars in biology research, six graduate level courses, and 6 hours of thesis. A diverse faculty allows students to choose among the gamut of biological research options, from studying the molecular basis of disease to investigating the ecological and evolutionary processes of macroorganisms. Faculty disciplines include:

- Cell and Molecular Biology
- Genetics
- Microbiology
- Physiology
- Forensic Science
- Systematics
- Animal Behavior
- GIS
- Ecology
- Entomology
- Botany
- Parasitology
- Ichthyology
- Herpetology
- Ornithology
- Mammalogy

To explore more about the faculty visit the Department of Biological Sciences (https://www.shsu.edu/academics/biological-sciences/).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/biology/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in biology must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work
4. Two letters of recommendation from faculty in the student's major at the undergraduate degree-granting institution
5. A statement of purpose outlining the student's goals in the program
6. C.V.

To be granted regular admission, applicants must have an undergraduate degree in biology or a related field. Applicants having an undergraduate degree in a discipline other than biology must successfully complete the equivalent of an undergraduate minor in the biological sciences before being considered for regular admission.

Applicants from non-English speaking countries must also present a score of at least 78 on the Internet-based (iBT), 550 on the paper version (PBT), or 213 on the computer version (CBT) of the Test of English as a Foreign Language (TOEFL). In addition, International Students are required to have an SHSU Biological Sciences Graduate Faculty member write a letter of support for their application to the program.

More detailed information on admission, competitive GRE scores, and undergraduate GPA can be found in the Graduate Student Handbook (http://www.shsu.edu/academics/biological-sciences/programs/graduate-biology-program.html).

Assistantships

Teaching Assistantships are available through the Department of Biological Sciences (https://www.shsu.edu/academics/biological-sciences/) in conjunction with the College of Science and Engineering Technology (https://www.shsu.edu/academics/science-and-engineering-technology/) and the Graduate School. (https://www.shsu.edu/dept/graduate-studies/) They are limited in number and awarded on a competitive basis. An Application for Teaching Assistantship should be submitted separately to the Graduate Coordinator by the 12th week of the semester prior to the semester the student is applying. Assistantships are awarded for four semesters.

A Teaching Assistantship application can be found in the Graduate Student Handbook (http://www.shsu.edu/academics/biological-sciences/programs/graduate-biology-program.html).

There are two different plans leading to the M.S. in Biology. Plan 1 requires completion of a thesis for a total of thirty hours of graduate credit in biology. In Plan 2, students take twenty-seven hours of biology (including thesis hours) with 12 hours of supporting coursework in a chosen secondary field for a total of thirty-nine hours of graduate credit.

All graduate students are required to pass a comprehensive examination on general biological concepts based on their coursework. The nature of this examination, which may be written and/or oral, will be determined by the student's comprehensive exam committee. Students must be enrolled the semester they take the comprehensive examination.

A thesis research project is conducted under supervision of the student's thesis advisor, and the student will present the thesis to the faculty in seminar format. The thesis must be defended before the student's thesis committee.

Students must complete six credit hours of thesis coursework. This entails three credit hours of BIOL 6398 and three credit hours of BIOL 6099. Once enrolled in BIOL 6099, a student must be continually enrolled in that course until graduation.

Plan 1 - M.S. in Biology (Thesis)

Code	Title	Hours
Master of Science in Biology (Thesis)		
Specified Courses		
BIOL 5301 & BIOL 5302	Seminar in Biology Research I and Seminar in Biology Research II	6
Electives		
Select six graduate courses in BIOL in consultation with the Graduate Advisor excluding thesis courses		18
Thesis		
BIOL 6398	Thesis	3
BIOL 6099	Thesis	3
Total Hours		**30**

Plan 2 - M.S. in Biology with a Secondary Field (Thesis)

Code	Title	Hours
Master of Science in Biology (Thesis)		
Specified Course		
BIOL 5301 & BIOL 5302	Seminar in Biology Research I and Seminar in Biology Research II	6
Electives		
Select five graduate courses in BIOL in consultation with the Graduate Advisor excluding thesis courses		15
Secondary Field		
Select four graduate courses in an approved secondary field in consultation with the Graduate Advisor		12
Thesis		
BIOL 6398	Thesis	3
BIOL 6099	Thesis	3
Total Hours		**39**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Biology is designed to provide graduates with the following marketable skills:

- Master the depth of knowledge required for a master's degree in biological sciences.
- Demonstrate critical thinking.
- Communicate effectively.
- Work collaboratively.

Department of Chemistry

About

The Department of Chemistry is approved by the American Chemical Society.

Chair: Donovan C. Haines, Ph.D. (dch009@shsu.edu)

Contact Information: (936) 294-1532

Website: Department of Chemistry (http://www.shsu.edu/academics/chemistry/)

Mission

The Department of Chemistry is committed to providing an educational environment conducive to scholarship, intellectual development, and the acquisition of a foundation of knowledge and techniques required of professional chemists. This goal requires the effective representation of the fundamental areas of chemistry, a dedicated and creative faculty, and support for the many functions of the department.

Academic Program

General Information

Advisory Committee

For students completing a thesis, a thesis advisor will be selected and the research project will begin in the first semester of graduate work. The student and the thesis director, with approval from the chair, will select two additional faculty members to serve on the thesis committee.

Period of Study

Students taking 6-9 semester hours of coursework each long semester and three semester hours during summer sessions will typically finish their graduate program in two years. A minimum of three long semesters and one summer session is required. Registration for the research course will typically occur during the summer term.

Comprehensive Exam and Oral Thesis Defense

An oral presentation of the thesis to the faculty in a seminar format is required, and the thesis must be defended before the student's thesis committee. All graduate students are required to pass an oral comprehensive exam based on their coursework. The oral comprehensive exam is typically concurrent with the thesis defense. Once enrolled in a thesis class, a student must be continually enrolled until graduation.

Highlights

- Students work with Chemistry faculty on state-of-the-art research in the Chemistry and Forensic Science Building research laboratories.
- The Department of Chemistry recently purchased an X-ray diffractometer and continually looks for ways to improve and enhance their research equipment.

- Master of Science in Chemistry (p. 1742)
  - Master of Science in Chemistry, with Thesis (p. 1742)
  - Master of Science in Chemistry, Non-Thesis (p. 1742)

Assistantships

Most graduate students in the MS Chemistry programs are supported by a graduate assistantship, either serving as a lab assistant in a teaching lab for 20 hours per week or carrying our research on a faculty member's research grant. In addition, the department can often offer a summer research stipend.

Scholarships

Scholarships are available from the College of Science and Engineering Technology and from The Graduate and Professional School to support students' studies. Please check the websites for the College and Graduate and Professional School for more information.

For more information about graduate student financial opportunities, please email the Department of Chemistry at chemistry@shsu.edu.

Director/Chair: **Donovan C Haines**

Benny E Arney, PHD (chm_bea@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Rice University; BA, Univ of St Thomas

Dustin E Gross, PHD (deg013@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Texas At Austin; BS, Univ of Arizona

Donovan C Haines, PHD (dch009@shsu.edu), *Professor and Chair of Chemistry*, *Department of Chemistry*, PHD, Wichita State University; BS, Wichita State University

Meagan Elizabeth Hinze, PHD (meh066@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Cornell University; MS, Cornell University; BS, Butler University

Christopher Eugene Hobbs, PHD (ceh079@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Texas A&M University; BS, Angelo State University

Ilona Petrikovics, PHD (ixp004@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ Debrecen Med & Health Sci; PHD, Kossuth Laos University; MSC, Univ Debrecen Med & Health Sci

Richard Neal Schaugaard, PHD (rschaugaard@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Indiana University; BS, Univ of Washington

David E Thompson, PHD (det002@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Wisconsin-Madison; BA, Carleton College

Tarek Mohsen Trad, PHD (tmt033@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oklahoma State University; BS, Beirut Arab Univ

Adrian Villalta-Cerdas, PHD (axv067@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Costa Rica

Darren Lee Williams, PHD (williams@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oregon State University; BS, Univ of Texas At Austin

Christopher M Zall, PHD (cxz027@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Minnesota-Twin Cities; MS, Univ of Minnesota-Twin Cities; BA, Carleton College

Master of Science in Chemistry

The Master of Science in Chemistry is designed to train chemists for careers in business, industry, or academics. This degree is also appropriate for those students planning to continue their training in Ph.D. programs at other institutions.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/chemistry/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in chemistry must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work
4. Three letters of recommendation

Applicants must have a major or minor in chemistry (with at least a 2.5 GPA in their undergraduate chemistry courses typically including Analytical or Quantitative Chemistry, Instrumental Methods, one year of calculus-based Physical Chemistry, and Inorganic Chemistry) or commensurate industrial experience. While GRE scores are not required, they may be submitted with the application for consideration during application review.

For a final admissions decision, a holistic review of each student's application file will be completed on a competitive basis. Currently a 3.0 GPA is required for financial support.

The Department of Chemistry (https://www.shsu.edu/academics/chemistry/) offers classes in a wide variety of chemical subjects including analytical, forensic, inorganic, organic, physical, and polymer chemistry, toxicology, and biochemistry.

Master of Science, 31 SCH with Minor and Thesis

Code	Title	Hours
Course Area		
Chemistry		13
Research and Thesis		6
Minor field that logically supports the major (Computing Science, Mathematics, Physics, Biology, etc.)		12
Total Hours		**31**

Plan 1 - MS in Chemistry (Thesis Option)

Code	Title	Hours
Master of Science, 31 Semester Hours with Minor and Thesis		
Specified Courses		
CHEM 5100	Chemical Literature & Seminar	1
CHEM 6398	Graduate Research in Chemistry	3
Restricted Electives		
Select one course from four of the of the following five areas:		12
Organic		
CHEM 5361	Physical Organic Chemistry	
CHEM 5362	Organic Reaction Mechanisms	
Analytical		
CHEM 5368	Analytical Spectroscopy	
CHEM 5367	Chemical Nano Sensing	
Biochemistry		
CHEM 5372	Advanced Biochemistry I	
CHEM 5373	Drug and Toxin Biochemistry	
Inorganic		
CHEM 5374	Chemistry of Coordination Compounds	
CHEM 5375	Organometallic Chemistry	
Physical		
CHEM 5381	Advanced Physical and Chemical Thermodynamics	
CHEM 5382	Symmetry and Spectroscopy	

Secondary Field		
Select four graduate courses in a field that logically supports the major [1]		12
Thesis		
CHEM 6099	Thesis [2]	3
Total Hours		**31**

1 Courses should be selected in consultation with the Graduate Advisor.
2 Once enrolled in CHEM 6099, the student must enroll in this course every semester until graduation.

Master of Science, 30 SCH without Minor and with Thesis

Code	Title	Hours
Course Area		
Chemistry		24
Research and Thesis		6
Total Hours		**30**

Plan 2 - MS in Chemistry (Thesis Option)

Code	Title	Hours
Master of Science, 30 Semester Hours without Minor and with Thesis		
Specified Courses		
CHEM 5100	Chemical Literature & Seminar	1
CHEM 6398	Graduate Research in Chemistry	3
Restricted Electives		
Select one course from four of the following five areas:		12
Organic		
CHEM 5361	Physical Organic Chemistry	
CHEM 5362	Organic Reaction Mechanisms	
Analytical		
CHEM 5368	Analytical Spectroscopy	
CHEM 5367	Chemical Nano Sensing	
Biochemistry		
CHEM 5372	Advanced Biochemistry I	
CHEM 5373	Drug and Toxin Biochemistry	
Inorganic		
CHEM 5374	Chemistry of Coordination Compounds	
CHEM 5375	Organometallic Chemistry	
Physical		
CHEM 5381	Advanced Physical and Chemical Thermodynamics	
CHEM 5382	Symmetry and Spectroscopy	
Electives		
Select four graduate courses in CHEM [1]		11
Thesis		
CHEM 6099	Thesis [1]	3
Total Hours		**30**

1 Courses should be selected in consultation with the Graduate Advisor. The student may take CHEM 5100 two additional times for a total of three credit hours.
2 Once enrolled in CHEM 6099, the student must enroll in this course every semester until graduation.

Master of Science, 36 SCH with Minor, Non-Thesis

Code	Title	Hours
Course Area		
Chemistry		24
Minor field that logically supports the major (Computing Science, Mathematics, Physics, Biology, etc.)		12
Total Hours		**36**

Plan 3 - MS in Chemistry (Non-Thesis Option)

Code	Title	Hours
Master of Science, 36 Semester Hours with Minor, Non-Thesis		
Specified Courses		
CHEM 5100	Chemical Literature & Seminar [1]	3
CHEM 6398	Graduate Research in Chemistry	3
Restricted Electives		
Select one course from four of the following five areas:		12
Organic		
CHEM 5361	Physical Organic Chemistry	
CHEM 5362	Organic Reaction Mechanisms	
Analytical		
CHEM 5368	Analytical Spectroscopy	
CHEM 5367	Chemical Nano Sensing	
Biochemistry		
CHEM 5372	Advanced Biochemistry I	
CHEM 5373	Drug and Toxin Biochemistry	
Inorganic		
CHEM 5374	Chemistry of Coordination Compounds	
CHEM 5375	Organometallic Chemistry	
Physical		
CHEM 5381	Advanced Physical and Chemical Thermodynamics	
CHEM 5382	Symmetry and Spectroscopy	
Electives		
Select two graduate courses in CHEM		6
Secondary Field		
Select four graduate courses in PHYS, BIOL, or MATH [2]		12
Total Hours		**36**

1 CHEM 5100 must be taken three times for a total of three credit hours.
2 Courses should be selected in consultation with the Graduate Advisor.

Master of Science, 36 SCH without Minor, Non-Thesis

Code	Title	Hours
Course Area		
Chemistry		36
Total Hours		**36**

Plan 4 - MS in Chemistry (Non-Thesis Option)

Code	Title	Hours
Master of Science, 36 Semester Hours without Minor, Non-Thesis		
Specified Courses		
CHEM 5100	Chemical Literature & Seminar [1]	3
CHEM 6398	Graduate Research in Chemistry	3
Restricted Electives		

Select four of the following:		12
CHEM 5361	Physical Organic Chemistry	
CHEM 5362	Organic Reaction Mechanisms	
CHEM 5368	Analytical Spectroscopy	
CHEM 5372	Advanced Biochemistry I	
CHEM 5374	Chemistry of Coordination Compounds	
CHEM 5381	Advanced Physical and Chemical Thermodynamics	
CHEM 5385	Selected Topics in Advanced Chemistry	
Electives		
Select six graduate courses in CHEM		18
Total Hours		**36**

[1] CHEM 5100 must be taken three times for a total of three credit hours.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Chemistry is designed to provide graduates with the following marketable skills:

- Work safely with standard chemicals in a chemistry laboratory.
- Keep thorough and accurate records of chemistry experiments.
- Write final research reports and orally present results of experiments.
- Analyze and interpret experimental data, including spectrophotometric data.
- Understand the use of the major methods of purification of chemical compounds, including chromatographic techniques.

Department of Computer Science

About

Chair: Bing Zhou, Ph.D. (bxz003@shsu.edu)

Contact Information: (936) 294-3846

Websites:
Department of Computer Science (http://cs.shsu.edu)
Cyber Forensics Intelligence Center (https://df.shsu.edu/)

Mission

The Department of Computer Science is a community of faculty, staff, and students centered in the computer science disciplines. The Department of Computer Science is dedicated to providing the highest quality education possible to its graduate and undergraduate students through excellence in teaching and excellence in research. The department is committed to furthering the pursuit of knowledge and meeting the needs of a diverse society.

The Department of Computer Science seeks to provide an environment that encourages innovative thinking, academic rigor, and the pursuit of scholarship in an atmosphere that promotes high ethical and moral values and mutual respect, embracing diversity and working towards a goal of instilling a life-long love of learning.

Highlights

Sam Houston State University provides a comprehensive computing environment for students. The Division of Informational Technology operates a large number of computing laboratories containing desktop computers and workstations. A variety of operating systems, network protocols, programming languages and application packages are available. In addition to the institutional facilities, the Department of Computer Science operates a range of lab facilities to support its mission and programs, including network robotics and Unix labs, a data recovery lab, and a network security lab. The department operates a 40-node symmetric multiprocessing system for use in parallel processing, digital forensics, cryptanalysis, and steganographic research. The department also has access to state of the art visualization facilities. As part of its operations, the Department of Computer Science houses the Sam Houston State University Cyber Forensics Intelligence Center, a center dedicated to the development of digital forensics training for law enforcement personnel and research opportunities into forensics and security issues.

Career Opportunities

Computing professionals support many scientific, governmental, and commercial enterprises though network and communication systems management, application (computer program) development and maintenance, and hardware design. The management of computing resources within organizations is typically a mission critical activity and computing professionals occupy key organizational roles as network and database administrators, software engineers, systems analysts and programmers. Of key concern in today's modern environment is the protection, assurance, and recovery of computing resources, providing opportunities for those wanting to work in the information assurance and digital forensics fields.

- Ph.D. in Digital and Cyber Forensic Science (p. 1748)
- Master of Science in Computing and Data Science (p. 1750)
- Master of Science in Digital Forensics (p. 1753)
- Master of Science in Information Assurance and Cybersecurity (p. 1755)
- Graduate Certificate in Cyber Security (p. 1757)
- Graduate Certificate in Data Assurance (p. 1759)
- Graduate Certificate in Data Science (p. 1760)
- Graduate Certificate in Digital Investigation (p. 1763)

Student Organizations and Activities

The student chapter ACM@SHSU - The student chapter sponsors field trips, campus visits by guest speakers, and occasional student/faculty outings.

Scholarships

The Department of Computer Science offers the following scholarship:

- The Kailas and Becky Rao Scholarship in honor of Mr. Albert Kidd: awarded to full time graduate or undergraduate students in good standing and majoring in Computer Science.

This scholarship requires a minimum GPA of 3.0 and registration in courses leading to a degree in Computer Science. Other criteria are also pertinent to individual scholarships. More information can be obtained through the department.

Director/Chair: **Bing Zhou**

Min Kyung An, PHD (an@shsu.edu), *Associate Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Texas At Dallas; MS, Univ of Texas-Arlington; BS, Jeju National University

Kirk A Burns, MS (lib_kab@shsu.edu), *Senior Lecturer of Computer Science*, *Department of Computer Science*, MS, Sam Houston State University; BS, Sam Houston State University

Hyuk Cho, PHD (hxc005@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin; MA, Korea University; BE, Chonbuk National University

ABM Rezbaul Islam, PHD (ari014@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of North Texas; MS, Ajou University; BSC, Shahjalal Univ of Sci & Techno

Haodi Jiang, PHD (hxj024@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, New Jersey Institute of Techn; MS, Florida Int'L Univ; BE, Southwest University

Li-Jen Yu Lester, EDD (lys001@shsu.edu), *Adjunct Faculty; Professor and Associate Dean COSET*, *Department of Computer Science*, EDD, Sam Houston State University; MA, Sam Houston State University; BS, Tahan Institute of Technology

Fan Liang, MS (fxl027@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Univ of Massachusetts-Dartmout; BS, Northwestern Polytechnic Univ; DSC, Towson State University

Qingzhong Liu, PHD (qxl005@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, New Mexico Inst/Mining/Tech; ME, Sichuan University; BE, Northwestern Polytechnic Univ

Xing Liu, MS (xxl020@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Lawrence Inst. of Tc; BE, Shanghai Univ of Engr Science; DSC, Towson State University

Van Vung Pham, PHD (vung.pham@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas Tech University; MS, Politecnico Di Milano; BS, President University

Amar Adnan Rasheed, PHD (axr249@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Northeastern Illinois Univ; BS, University of Bagdad

Narasimha Karpoor Shashidhar, PHD (nks001@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Connecticut; MS, Univ of Connecticut; BE, University of Madras

Gary W. Smith, PHD (gsmith@shsu.edu), *Associate Professor of Computing Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

Cihan Varol, PHD (cxv007@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Arkansas-Little Rock; MS, West Virginia University; BSC, Firat University

Bing Zhou, PHD (bxz003@shsu.edu), *Professor and Chair of Computer Science*, *Department of Computer Science*, PHD, University of Regina; MS, University of Regina; BS, Shandong Univ of Technology

Ph.D. in Digital and Cyber Forensic Science

The Doctor of Philosophy in Digital and Cyber Forensic Science is designed to produce students of the digital forensics and cyber-security realms with the technical skills, critical thinking ability, problem-solving skills, and advanced, discipline-specific knowledge to allow them to advance into leadership positions in business and industry as well as academia. This is accomplished by demonstrating the ability to perform independent and collaborative original research, the successful completion of academic coursework, hands-on experience in the laboratory, and collaboration with digital forensics and cyber-security agencies, institutes, and partners. The program will provide students with the theoretical, conceptual, methodological, and computational skills needed to understand the role of digital and cyber forensic science in post technological societies. The program will allow students to explore the potential for forensically sound digital data capture and analysis and to develop new tools and methods for handling digital and cyber forensic evidence. In doing so, this program has, as its primary focus, research into the computational and scientific basis for forensic and cyber technologies.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/doctorate/digital-and-cyber-forensic-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

The Ph.D. in Digital and Cyber Forensic Science is a full-time, on campus program. Admission to the program requires devoting a significant amount of time to the program. Students are admitted as part of an annual cohort and have a fixed program of study in the first two years of the program.

Applicants seeking admission to the doctoral program in forensic science must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

- Graduate Admissions Application (http://www.shsu.edu/admissions/apply-texas.html)
- Application Fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
- Bachelor's degree conferred by a regionally accredited institution in computer science, digital forensics, or a closely related field
- Official transcript(s) from degree granting institution(s)
- Official transcripts from all colleges/universities attended
- GPA of 3.5 or higher
- Program Application (https://cs.shsu.edu/programs/DCFS-PhD-Application3_.pdf)
- Personal statement, not to exceed 1000 words
- Three letters of recommendation. A minimum of two letters must be from faculty who are sufficiently acquainted with the student to comment on potential for success in the doctoral program
- Current resume or vita
- In some instances, a personal interview may be requested.

The program requires the completion of a minimum of seventy-four hours of graduate credit, as prescribed in the degree plan.

Students must register full-time and maintain a 3.0 grade point average in all courses. In order to advance to candidacy, students must have successfully completed forty-six graduate credit hours of coursework and internship, submit a portfolio for review, and pass Comprehensive Examinations. Once the doctoral program committee determines that the portfolio, proposal, and comprehensive examinations are satisfactory, the student may enroll in dissertation credits.

A minimum of fifteen hours of dissertation credits are required, and students must maintain continuous enrollment in DFSC 8370 (Dissertation) or DFSC 8670 (Dissertation II) until they graduate. Students must complete and defend a doctoral dissertation, which is the product of original scholarly research and is of sufficient publishable quality to represent a meaningful contribution to knowledge in the field of digital and cyber forensic science.

The Ph.D. in Digital and Cyber Forensic Science requires the completion of 74 credit hours beyond the bachelor's degree. Students complete:

Code	Title	Hours
Requirements		
Core Coursework		41
Dissertation Research		15
Electives		12
Internship		6
Total Hours		**74**

The curriculum is designed to deliver an essential core curriculum in digital and cyber forensic science, together with specialized electives and intensive research in the area of interest. Students are expected to fulfill the requirements during four to five years of full-time study.

Code	Title	Hours
Ph.D. in Digital and Cyber Forensic Science		
DFSC 5316	File System Forensics	3
DFSC 6410	Cyber Forensics Principles	4
DFSC 7106	Seminar in Digital Forensics [1]	4
DFSC 7300	E-Discovery	3
DFSC 7320	Ethics for Digital Forensics	3
DFSC 7330	Digital Forensics Laboratory Management	3
DFSC 7340	Digital Forensics Tools & Techniques	3
DFSC 7350	Operating System Forensics	3
DFSC 7352	Network Forensic Analysis	3
DFSC 7356	Mobile Device Forensics	3
DFSC 7358	Live System & Memory Forensics	3
DFSC 7360	Digital Forensics Research Methods	3
DFSC 7362	Computational Forensics	3
DFSC 7600	Internship	6
Prescribed Electives		
Select 4 of the following:		12
COSC 5310	Cryptography & Steganography	
DFSC 6310	Cyber Warfare & Terrorism	
DFSC 7341	DF Infrastructure	
DFSC 7351	Cloud Computing Forensics	
DFSC 7353	RAID & Remote System Forensics	
DFSC 7355	Intrusion Forensic Analysis	
DFSC 7357	Malware Forensic Analysis	
DFSC 7359	Social Network Forensics	
DFSC 7365	Commercial Tool Verification	
DFSC 7364	Scientific Communications	
STAT 7365	Statistical Methods for Decision Making	
FORS 5337	Fundamentals of Criminalistics	
DFSC 8370	Dissertation [2]	15
or DFSC 8670	Dissertation II	
Total Hours		**74**

1 DFSC 7106 must be taken for a total of four credit hours.

2 Once enrolled in DFSC 8370 or DFSC 8670, students must enroll in this course every semester until graduation.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Ph.D. in Digital and Cyber Forensic Science is designed to provide graduates with the following marketable skills:

- Solve complex cybersecurity-related problems.
- Apply theoretical principles to the development of digital forensics tools and techniques.
- Post-secondary teaching capability.
- Technical communication ability.
- Strong research-oriented capabilities.

Master of Science in Computing and Data Science

The Computing and Data Science curriculum utilizes state-of-the-art software, software development methodologies, project management techniques, data science, and systems. Emphasis is placed on preparing students for an environment where change is the norm. Computing and Data Science may be selected as the major for the Master of Science degree.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/computing-and-data-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in Computing and Data Science must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work
4. Two letters of recommendation that address the applicant's qualifications for graduate study
5. International Applicants Only: TOEFL or IELTS scores. The minimum requirement for TOEFL is 550 paper-based, 213 computer-based, and 79 internet-based. The minimum requirement for IELTS is 6.5

Graduate study in Computing and Data Science is accessible to students who have completed undergraduate computer science majors or minors and to students with baccalaureate degrees in related fields with the equivalent of a computer science minor in formal coursework or professional experience.

At the minimum, candidates are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog (p. 68) of Sam Houston State University.

Background Courses

Code	Title	Hours
Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4327	Computer Operating Systems	3
MATH 1420	Calculus I	4
MATH 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses. These courses **do not apply** towards the degree plan.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

In general, applicants whose GRE score exceeds 300 will likely be able to complete the master's degree successfully. Admission preference is given to those applicants with an undergraduate GPA in excess of 3.0. However, please note that a holistic review of each student's application file will be completed, and admission will be granted on a competitive basis.

The MS in Computing and Data Science requires a minimum of thirty hours of graduate credit. There are two plans leading to the degree: a thesis and a non-thesis option.

A thesis / MS Project committee will be established either before or during the student's penultimate semester. The committee should consist of a committee chair (supervisor) and a minimum of two additional committee members, all holding the appropriate graduate faculty status. With the approval of the department, academic dean, and Dean of The Graduate School, the committee may include one member who is not employed by SHSU, as per Academic Policy Statement 950601. The selection of the committee chair hinges on the student's preference, faculty availability, and expertise. Once a faculty member agrees to assume the role of chair, the student, under the chair's guidance, will proceed to select the remaining

committee members. Subsequently, the committee's constitution needs approval from both the Graduate Coordinator and the Dean. Any alterations to the committee's composition will similarly require approval through the same process.

All MS students in Non-Thesis Option are obligated to fulfill and achieve a passing grade in written or oral comprehensive exams for core subjects where they obtained a grade of B or lower. Exams are conducted during their terminal semester. Should a student fail one or more examinations, a re-examination shall be permitted per department approval. A third examination may be permitted only with the approval of the appropriate academic dean and the department. Students must be enrolled at SHSU in the semester in which the comprehensive exams are administered.

Once enrolled in COSC 6347 or COSC 6348/COSC 6049 a student must be continually enrolled each semester until graduation.

Plan 1 - MS in Computing and Data Science (Thesis Option)

Code	Title	Hours
Master of Science in Computing and Data Science (Thesis option)		
Specified Courses		
COSC 5318	Database Systems	3
COSC 5319	Algorithm Design and Analysis	3
COSC 5327	Operating Systems	3
COSC 6318	Language and Compiler Design	3
COSC 6319	Software Engineering	3
COSC 6348	Thesis [1]	3
COSC 6049	Thesis [1]	3
Track Electives [2,3]		**9**
Total Hours		**30**

1. Once enrolled in a thesis course, the student must enroll in a thesis course until graduation.
2. See Computing and Data Science Tracks course listings below.
3. COSC 5301 and COSC 5302 do not count towards the degree plan.

Plan 2 - MS in Computing and Data Science (Non-Thesis Option)

Code	Title	Hours
Master of Science in Computing and Data Science (Non-thesis option)		
Specified Courses		
COSC 5318	Database Systems	3
COSC 5319	Algorithm Design and Analysis	3
COSC 5327	Operating Systems	3
COSC 6318	Language and Compiler Design	3
COSC 6319	Software Engineering	3
COSC 5050	Independent Study	3
COSC 6347	Programming Practicum [1]	3
Track Electives [2,3]		**9**
Total Hours		**30**

1. Once enrolled in COSC 6347, the student must continue to enroll in this course until graduation.
2. See Computing and Data Science Tracks course listings below.
3. COSC 5301 and COSC 5302 do not count towards the degree plan.

Computing and Data Science Tracks

Code	Title	Hours
Data Science		
COSC 5313	Artificial Intelligence	3
COSC 6314	Data Mining/Knowledge Discovery	3
COSC 6315	Machine Learning	3

Code	Title	Hours
Systems		
COSC 5322	Real-Time and Embedded Systems	3
COSC 5326	Networks & Data Communications	3
COSC 6321	Distributed Computing	3

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4327	Computer Operating Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses. These courses **do not apply** towards the degree plan.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Computing and Information Science is designed to provide graduates with the following marketable skills:

- Identify and solve complex computing problems in information technology, business, medicine, and other essential industries.
- World-class soft skills in complex problem-solving, communication, and creative thinking.
- Strong technical skills and interpersonal skills to work as a group.
- Superior technical writing skills to document and publish their findings.

Master of Science in Digital Forensics

The Master of Science in Digital Forensics is a thirty hour program that prepares students for service in a variety of public and commercial arenas such as digital forensics or as network security professionals. In particular, graduates from the Digital Forensics program will be able to effectively plan, establish, and administer security and information assurance systems in commercial settings and law enforcement. This program utilizes state-of-the-art facilities, like Sam Houston State University's Cyber Forensics Intelligence Center. The facility includes a Network Security Lab, accommodating training in data, network and cyber security intrusion detection, prevention and tracing, and a Data Recovery Lab that will provide training in the identification, recovery, and preservation of data for legal purposes.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/digital-forensics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Master of Science in Digital Forensics must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work
4. Up-to-date Resume
5. Two letters of recommendation that address the applicant's qualification for graduate study

This degree is accessible to students who have completed undergraduate Computer Science or Criminal Justice majors or minors and to those with baccalaureate degrees in technical fields with the equivalent of a Computer Science or Criminal Justice minor in formal coursework or professional experience. Applicants who do not possess the appropriate academic, technical, or experiential backgrounds may be required to take stem work courses. In addition, admission preference is given to applicants with a GPA of 3.0 or greater.

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the MS in Digital Forensics.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

The degree requires a minimum of thirty hours of graduate credit. All MS students in Non-Thesis or Professional Options are obligated to fulfill and achieve a passing grade in written or oral comprehensive exams for core subjects where they obtained a grade of B or lower. Exams are conducted during their terminal semester. Should a student fail one or more examinations, a re-examination shall be permitted per department approval. A third examination may be permitted only with the approval of the appropriate academic dean and the department. Students must be enrolled at SHSU in the semester in which the comprehensive exams are administered.

An MS Project or Thesis committee will be established either before or during the student's penultimate semester. The committee should consist of a committee chair (supervisor) and a minimum of two additional committee members, all holding the appropriate graduate faculty status. With the approval of the department, academic dean, and Dean of The Graduate School, the committee may include one member who is not employed by SHSU, as per Academic Policy Statement 950601. The selection of the committee chair hinges on the student's preference, faculty availability, and expertise. Once a faculty member agrees to assume the role of chair, the student, under the chair's guidance, will proceed to select the remaining

committee members. Subsequently, the committee's constitution needs approval from both the Graduate Coordinator and the Dean. Any alterations to the committee's composition will similarly require approval through the same process.

Master of Science in Digital Forensics (Non-Thesis Option)

Code	Title	Hours
Master of Science in Digital Forensics (Non-Thesis Option)		
Specified Courses		
DFSC 5315	Network and Cyber Security	3
DFSC 5316	File System Forensics	3
DFSC 5317	Digital Security	3
DFSC 5318	Cyber Law	3
DFSC 5327	Digital Forensics Investigation	3
DFSC 6347	Directed Management and Development Project [1]	3
Electives		
Select four graduate courses in DFSC or COSC graduate courses [2]		12
Total Hours		**30**

1 Once enrolled in DFSC 6347, the student must enroll in this course until graduation.
2 COSC 5301 and COSC 5302 do not count towards the degree plan.

Master of Science in Digital Forensics (Thesis Option)

The Master of Science in Digital Forensics (Thesis Option) can better prepare students interested in pursuing Ph.D. degrees or related fields, providing valuable research experience and a strong academic foundation. It also provides students with greater flexibility and choice in how they tailor their academic experience to align with their interests and career goals.

Code	Title	Hours
Master of Science in Digital Forensics (Thesis Option)		
Degree Specific Requirements		
COSC 6049	Thesis	3
COSC 6348	Thesis	3
DFSC 5315	Network and Cyber Security	3
DFSC 5316	File System Forensics	3
DFSC 5317	Digital Security	3
DFSC 5318	Cyber Law	3
DFSC 5327	Digital Forensics Investigation	3
Electives		
Select three graduate courses in DFSC or COSC graduate courses [1]		9
Total Hours		**30**

1 COSC 5301 and COSC 5302 do not count towards the degree plan.

Master of Science in Digital Forensics (Professional Option)

The Master of Science in Digital Forensics (Professional Option) requires only coursework without a thesis or MS project. This plan is suggested for working professionals and individuals seeking to enhance their skills and knowledge in digital forensics.

Code	Title	Hours
Master of Science in Digital Forensics (Professional Option)		
Degree Specific Requirements		
DFSC 5315	Network and Cyber Security	3
DFSC 5316	File System Forensics	3
DFSC 5317	Digital Security	3
DFSC 5318	Cyber Law	3
DFSC 5327	Digital Forensics Investigation	3
DFSC 5338	Ethical Hacking	3

DFSC 6312	Multimedia Forensics	3
Electives		
Select three graduate courses in DFSC or COSC graduate courses [1]		9
Total Hours		**30**

[1] COSC 5301 and COSC 5302 do not count towards the degree plan.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Digital Forensics is designed to provide graduates with the following marketable skills:

- Establish & operate an investigator's lab and process digital evidence.
- Develop plans to safeguard digital files against unauthorized modification and destruction.
- Create plans and implement strategies for preventing attacks to a network.
- Acquire a strong academic foundation in Cyber Security needed to pursue Doctoral level programs.

Master of Science in Information Assurance and Cybersecurity

Graduate study in Information Assurance and Cybersecurity is accessible both to students who have completed undergraduate Computer Science or Management Information Science majors or minors and to those with baccalaureate degrees in technical fields with the equivalent of a Computer Science or Management Information Science minor in formal coursework or professional experience. Applicants who do not possess the appropriate academic, technical, or experiential backgrounds may be required to take stem work courses to ensure a minimum standard of technical competence. Stem work decisions are made on an individual basis by the department chair.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/information-assurance-and-cybersecurity/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in Information Assurance and Cybersecurity must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Up-to-date Resume
5. Two letters of recommendation that address the applicant's qualification for graduate study

This degree is accessible to students who have completed undergraduate Computer Science or Criminal Justice majors or minors and to those with baccalaureate degrees in technical fields with the equivalent of a Computer Science or Criminal Justice minor in formal coursework or professional experience. Applicants who do not possess the appropriate academic, technical, or experiential backgrounds may be required to take stem work courses. In addition, admission preference is given to applicants with a GPA of 3.0 or greater.

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Required Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the MS in Information Assurance and Cybersecurity.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

The degree requires a minimum of thirty hours of graduate credit. All MS students in Non-Thesis or Professional Options are obligated to fulfill and achieve a passing grade in written or oral comprehensive exams for core subjects where they obtained a grade of B or lower. Exams are conducted during their terminal semester. Should a student fail one or more examinations, a re-examination shall be permitted per department approval. A third examination may be permitted only with the approval of the appropriate academic dean and the department. Students must be enrolled at SHSU in the semester in which the comprehensive exams are administered.

An MS Project or Thesis committee will be established either before or during the student's penultimate semester. The committee should consist of a committee chair (supervisor) and a minimum of two additional committee members, all holding the appropriate graduate faculty status. With the approval of the department, academic dean, and Dean of The Graduate School, the committee may include one member who is not employed by SHSU, as per Academic Policy Statement 950601. The selection of the committee chair hinges on the student's preference, faculty availability, and expertise. Once a faculty member agrees to assume the role of chair, the student, under the chair's guidance, will proceed to select the remaining committee members. Subsequently, the committee's constitution needs approval from both the Graduate Coordinator and the Dean. Any alterations to the committee's composition will similarly require approval through the same process.

Master of Science in Information Assurance and Cybersecurity (Non-Thesis Option)

Code	Title	Hours
Master of Science in Information Assurance and Cybersecurity (Non-Thesis Option)		
Specified Courses		
COSC 5325	Operating System Security	3
COSC 5335	Database Security	3
DFSC 5310	Principle and Policy in Information Assurance	3
DFSC 5315	Network and Cyber Security	3
DFSC 5336	Business Continuity Management	3
DFSC 6347	Directed Management and Development Project [1]	3
Prescribed Electives		
Select four graduate courses in DFSC or COSC graduate courses [2]		12
Total Hours		**30**

1 Once enrolled in DFSC 6347, the student must enroll in this course until graduation.
2 COSC 5301 and COSC 5302 do not count towards the degree plan.

Master of Science in Information Assurance and Cybersecurity (Thesis Option)

The Master of Science in Information Assurance and Cybersecurity (Thesis Option) can better prepare students interested in pursuing Ph.D. degrees or related fields, providing valuable research experience and a strong academic foundation. It also provides students with greater flexibility and choice in how they tailor their academic experience to align with their interests and goals.

Code	Title	Hours
Master of Science in Information Assurance and Cybersecurity (Thesis Option)		
Degree Specific Requirements		
COSC 5325	Operating System Security	3
COSC 5335	Database Security	3
COSC 6049	Thesis	3
COSC 6348	Thesis	3
DFSC 5310	Principle and Policy in Information Assurance	3
DFSC 5315	Network and Cyber Security	3
DFSC 5336	Business Continuity Management	3
Electives		

Select three graduate courses in DFSC or COSC graduate courses [1]	9
Total Hours	**30**

[1] COSC 5301 and COSC 5302 do not count towards the degree plan.

Master of Science in Information Assurance and Cybersecurity (Professional Option)

The Master of Science in Information Assurance and Cybersecurity (Professional Option) requires only coursework without a thesis or MS project. This plan is suggested for working professionals and individuals seeking to enhance their skills and knowledge in cybersecurity.

Code	Title	Hours
Master of Science in Information Assurance and Cybersecurity (Professional Option)		
Degree Specific Requirements		
COSC 5325	Operating System Security	3
COSC 5330	Malware	3
COSC 5335	Database Security	3
DFSC 5310	Principle and Policy in Information Assurance	3
DFSC 5315	Network and Cyber Security	3
DFSC 5336	Business Continuity Management	3
DFSC 5338	Ethical Hacking	3
Prescribed Electives		
Select three graduate courses in DFSC or COSC graduate courses [1]		9
Total Hours		**30**

[1] COSC 5301 and COSC 5302 do not count towards the degree plan.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Information Assurance and Cybersecurity is designed to provide graduates with the following marketable skills:

- Establish and operate an investigator's lab, and process digital evidence.
- Develop plans to safeguard digital files against unauthorized modification and destruction.
- Create plans and implement strategies for preventing attacks to a network.
- Analyze and assess risk and identify vulnerabilities in an organization's network.
- Acquire the professional competency and cybersecurity expertise necessary for roles and responsibilities in business, industry, and governmental positions.

Graduate Certificate in Cyber Security

The Cyber Security certificate provides students with a concentrated and in-depth exposure to critical infrastructure security concerns to enhance professional capability. Individuals holding a baccalaureate degree in Computer Science or a related field would be suitable candidates for this program.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/cyber-security/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Cyber Security must submit the following directly to the Office of Graduate Admissions: (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html)

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution

4. Bachelor's degree in Computer Science or a closely related field with a minimum GPA of 3.0
5. Up-to-date Resume

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students who **have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the Graduate Certificate in Cyber Security.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

Code	Title	Hours
Graduate Certificate in Cyber Security		
Specified Courses		
COSC 5310	Cryptography & Steganography	3
COSC 5330	Malware	3
DFSC 5315	Network and Cyber Security	3
DFSC 6310	Cyber Warfare & Terrorism	3
Elective		
DFSC 5336	Business Continuity Management	3
or DFSC 5318	Cyber Law	
Total Hours		**15**

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students who **have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the Graduate Certificate in Cyber Security.

Graduate Stem Course Requirements

Code	Title	Hours
Prerequisite Courses		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Cyber Security is designed to provide graduates with the following marketable skills:

- Analyze and assess risk and identify vulnerabilities in an organization's network.
- Create plans and implement strategies for preventing attacks to a network.
- Acquire the professional competency and cybersecurity expertise necessary for roles and responsibilities in business, industry, and governmental positions.
- Cyber security research.

Graduate Certificate in Data Assurance

The Data Assurance certificate provides students with a concentrated and in-depth exposure to the management, mining, and security concerns of enterprise database administrators enhancing their professional capability and employability. Individuals holding a baccalaureate degree in Computer Science, Management Information Systems, or a related field would be suitable candidates for this program.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/data-assurance/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Data Assurance must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Bachelor's degree in Computer Science or a closely related field with a minimum GPA of 3.0
5. Up-to-date Resume

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the Graduate Certificate in Data Assurance.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

Code	Title	Hours
Graduate Certificate in Data Assurance		
Specified Courses		
COSC 5310	Cryptography & Steganography	3
COSC 5330	Malware	3
COSC 5335	Database Security	3
DFSC 5310	Principle and Policy in Information Assurance	3
DFSC 5336	Business Continuity Management	3
Total Hours		**15**

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the Graduate Certificate in Data Assurance.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Data Assurance is designed to provide graduates with the following marketable skills:

- Enterprise data management skills.
- Business continuity management skills.
- Risk management skills.
- Cryptanalysis and steganalysis skills.

Graduate Certificate in Data Science

The fully online Graduate Certificate in Data Science is designed to educate professionals or non-traditional students with a stackable set of core Data Science courses, which help students obtain industry-recognized, immediately valuable, and in-demand skills in the workplace.

This Graduate Certificate is not eligible to receive Title IV funding -- Direct Loans, Pell Grant, TEACH Grant, SEOG Grant, or Federal Work Study. Students enrolled in this program should explore alternative funding options and are encouraged to contact the financial aid office for assistance.

Additional Information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/data-science/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the Graduate Certificate in Data Science program must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/admissions/apply-texas.html)
3. Official transcript from the baccalaureate degree granting institution
4. Bachelor's degree in Computer Science or a closely related field with a minimum GPA of 3.0
5. Up-to-date Resume

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4327	Computer Operating Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses. These courses **do not apply** towards the degree plan.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

Code	Title	Hours
Graduate Certificate in Data Science		
Required Courses		
COSC 6321	Distributed Computing	3
COSC 6331	Data Visualization	3
COSC 6335	Big Data Analytics	3
COSC 6338	Data Science Capstone	3
Prescribed Electives		**3**
Select one of the two prescribed electives:		
COSC 6332	Computer Vision	
COSC 6333	Deep Learning	
Total Hours		**15**

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4

COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4327	Computer Operating Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses. These courses **do not apply** towards the degree plan.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Data Science is designed to provide graduates with the following marketable skills:

- Statistical analysis and computing skills.
- Processing large data sets skills.
- Machine learning and deep learning skills.
- Data analysis and visualization skills.

Graduate Certificate in Digital Investigation

The Digital Investigation certificate provides students with a concentration of expertise to conduct digital investigations using a wide array of specialized tools and knowledge. Individuals holding a baccalaureate degree in Computer Science, Criminal Justice, Information Systems, or a related field would be suitable candidates for this program.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/digital-investigation/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate certificate program in Digital Investigation must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript from the baccalaureate degree granting institution
4. Bachelor's degree in Computer Science or a closely related field with a minimum GPA of 3.0
5. Up-to-date resume

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the graduate certificate in Digital Investigation.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

Code	Title	Hours
Graduate Certificate in Digital Investigation		
Specified Courses		
DFSC 5315	Network and Cyber Security	3
DFSC 5317	Digital Security	3
DFSC 5327	Digital Forensics Investigation	3
COSC 5330	Malware	3
DFSC 6312	Multimedia Forensics	3
Total Hours		**15**

Stem Requirement

At the minimum, students are expected to present a background comparable to that provided in the following courses as described in the Undergraduate Catalog of Sam Houston State University:

Prerequisite courses

Code	Title	Hours
Prerequisite Courses		
COSC 2327	Introduction to Computer Networks	3
COSC 3318	Data Base Management Systems	3
MATH 1420	Calculus I	4
STAT 3379	Statistical Methods in Practice	3

Students **who have not fulfilled** the prerequisites in formal coursework **are required** to take one or more of the graduate stem courses, in addition to the 30 semester credit hours required in the graduate certificate in Digital Investigation.

Graduate Stem Course Requirements

Code	Title	Hours
Graduate Stem Course Requirements		
COSC 5301	Quantitative Foundations of Computer Science	3
COSC 5302	Computer Science Core Topics	3

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX** plan and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Digital Investigation is designed to provide graduates with the following marketable skills:

- Digital evidence analysis skills.
- Data security planning and implementation.
- Networking security planning and implementation.

Department of Engineering Technology

About

Chair: Dr. Faruk Yildiz (fxy001@shsu.edu)

Contact Information: (936) 294-1216 OR (936) 294-1191

Website: Department of Engineering Technology (https://www.shsu.edu/academics/engineering-technology/)

Mission

The mission of the Engineering Technology Department is to provide educational program designed to provide academic and practical experiences in the areas of management, engineering design, leadership, engineering technology for students to prepare to meet industry challenges and the needs.

Academic Programs

The Department of Engineering Technology currently offers only undergraduate degree programs. See the current undergraduate catalog (p. 1014) for more details.

- Master of Science in Engineering Technology and Management (p. 1766) (as of Spring 2026)

Director/Chair: **Faruk Yildiz**

Junkun Ma, PHD (jxm158@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Calif-San Diego; MS, N China Electric Power Univ; BE, Tsinghua University

Recayi Pecen, PHD (regpecen@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Wyoming; MS, Univ of Colorado; MSC, Istanbul Univ; BSC, Istanbul Univ

Min Jae Suh, PHD (mjs068@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Virginia Polytechnic&State U; MS, Stanford University; BENGR, Yeungnam University

Terrence R Waugh, PHD (trw006@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Omaha; BA, Creighton University

Faruk Yildiz, DIT (fxy001@shsu.edu), *Professor and Chair of Engineering Technology*, *Department of Engineering Technology*, DIT, Univ of Northern Iowa; MS, Cuny City Coll; BS, MKH Dulati Taraz State Univ

Master of Science in Engineering Technology and Management (As of Spring 2026)

The Master of Science in Engineering Technology and Management (MSETM) program is designed to prepare and further develop skills for engineers, technologists, and technical/industrial and engineering managers. The program is designed to prepare graduates holding a Bachelor of Science degree in engineering, engineering technology, industrial technologies, construction and safety management, and similar technologies for career advancement. The MSETM program in the Department of Engineering Technology aims to provide engineers and engineering technologists or similar area graduates with further applied research and management experience in engineering and technical studies. The program also aims to prepare graduates to design, build, test, operate and maintain a range of systems and processes. The curriculum offers both face-to-face and online classes, which are taught and supported by SHSU faculty. Thesis and non-thesis options are available.

Students must meet the following requirements for admittance to the Master of Science in Engineering Technology and Management (MSETM) degree program:

1. Submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

- Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
- Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
- Official transcript(s) of all previous college work

2. A minimum undergraduate GPA of 3.0

Code	Title	Hours
Master of Science in Engineering Technology and Management		
Required Courses		
AGED 5376	Personal Leadership & Organizational Dynamics	3
or BUAD 5310	Managerial Communication	
BANA 5368	Techniques Of Statistical Analysis	3
ETEC 5390	Directed Studies	6
or ETEC 6398	Thesis	
ETEC 6331	Plant Layout And Materials Handling	3
ETEC 6334	Materials Test Technology	3
ETEC 6335	Principles And Techniques Of Research In Industrial Education	3
MGMT 5320	Management of Innovation and Technology	3
SCMG 5318	Quality Management	3
Prescribed Electives		
Choose one from the following:		3
ETEC 5369	Special Topics in Advanced Industrial Technology	
GEOG 5371	Geographic Information Systems in Engergy-Related Fields	
GEOG 5373	Introduction to LiDAR & Radar	
Select one from the following:		3
SCMG 5323	Tools of Project Management	
SCMG 5330	Operations Planning & Control	
Total Hours		**33**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Master of Science in Engineering Technology and Management is designed to provide graduates with the following marketable skills:

- Prepare for advanced engineering and technical positions and leadership roles to develop and implement problem-solving strategies that can be scaled across entire businesses.
- Work in industry, academia, and government in applied research, solution development, and management, and be confident in pursuing entrepreneurial ventures.
- Combine qualitative approaches and quantitative techniques to advance engineering and technology and technical management career.

- Develop applicable skills that translate to on-the-job success in fast-growing, high-paying engineering and technology fields.
- Gain analytics-driven decision-making strategies and skills based on sound numerical reasoning and measurable outcomes.

Department of Environmental and Geosciences

Chair: Joseph Hill, Ph.D. (jch031@shsu.edu)

Contact Information: (936) 294-1451

Website: Department of Environmental and Geosciences (https://www.shsu.edu/academics/geography-geology/)

Mission

The primary mission of the Department of Environmental and Geosciences is to provide students of the complementary programs a comprehensive understanding of the range and depth of these scientific disciplines which encompass, respectively, environmental science and sustainability, the human and physical domains of geography, and the physical and historical domains of geology. This understanding is intended to enable our students to achieve their full potential as skilled professionals and well-qualified technical employees in a diverse range of companies and governmental organizations, and to become effective teachers and community leaders. Our programs enable students to become informed users of a range of technologies and prudent stewards of our natural resources. This understanding of the world will promote successful careers, active life-long learning, and an ability and desire to contribute positively to society.

Highlights

Located on the third floor of the Lee Drain Building, the department maintains both a Geographic Information System (GIS) lab and a combination GIS and remote sensing lab. These labs contain state-of-the-art computers, software, and scanners. We also have a van for fieldtrips, a pickup truck and trailer used for field research, a coring device capable of taking up to 6m core samples, high-quality GPS receivers, a large-scale flume to demonstrate sedimentation processes, and a Ground Penetrating Radar System. In order to enhance learning, all of our rooms are outfitted with video-projection systems, and our lecture rooms have sound systems and dedicated computers with Internet access that are used by the instructors for teaching purposes. Many of our students obtain internships and work with faculty members on research projects.

Academic Programs

Geography Program

Coordinator: John Strait (jstrait@shsu.edu) (936) 294-4077

Website: Department of Environmental and Geosciences (https://www.shsu.edu/academics/geography-geology/)

Geography is an interdisciplinary field of study that provides students the skills and technical knowledge needed to address issues, challenges, and opportunities associated with how humans interact with their local and global environments. As an academic subject, it focuses on both the physical and cultural environments and incorporates the use and application of a host of geospatial technologies as a means to study and analyze these subject matters, such as geographic information systems (GIS), remote sensing, digital image processing, and global positioning systems. Geographers can study an exceptionally eclectic range of phenomena, including demographics, landforms, soil fertility, plant and animal wildlife, weather and climate, religion, language, ethnicity, urban planning, and international affairs, just to name a few. Geographers are behind the maps you use every day, as well as the policies that shape our cities, and the analysis that sustains and protects our environment. Geographers help shape the future design of cities and infrastructure. Geographers assess the impacts of rising sea levels, volcanic eruptions, floods, heat waves, and tropical storms, while others study impacts of wildfires or manage wetlands. Geographers investigate the environmental and economic impacts of tourism and gauge the cultural impacts of globalization. Geographers use cutting edge satellite data to explore alternative energy sources and assess natural resource utilization and population growth. Geographers also work directly with local people on socioeconomic issues such as health, migration, and housing affordability. Moreover, geographers play a vital role in teaching this eclectic subject matter in school districts across the nation and around the world. If you want to learn about and change our world, there is no better discipline for people who thrive on complex challenges and want to make a real impact on lives and our environment. In the age of global markets, global culture, global transportation systems, and global telecommunications, we are increasingly faced with the reality that our welfare is highly interdependent with the rest of the world. A geographic education represents an excellent way to understand how to deal with environmental, social, and economic issues associated with this reality. For an individual curious about the world and his or her place in it, few disciplines satisfy that curiosity as much as geography.

Geography Concentrations

The Geography program incorporates a two-track curriculum and is designed to fit the particular academic interests of our students and better prepare them for life beyond SHSU, particularly in terms of graduate study or employment opportunities. Students majoring in geography focus their studies within one of two concentrations; 1) Environment, Culture, and Development, or 2) GIS (Geographic Information Science). Both concentrations are somewhat flexible and enable students to tailor their degree plans toward a mix of coursework most appropriate to their career goals. The Environment, Culture, and Development Concentration truly integrates the strengths of environmental and human geography, with the application of geospatial techniques. For example, students choosing this concentration matriculate through a degree that integrates scientific study of the environment with the perspectives of such topics as hydrology, conservation, culture, economic change, development, population, and public health, while gaining experience using geospatial techniques. Students choosing this concentration can pursue either Bachelors of Arts (BA) or Bachelors of Science (BS) degrees. The GIS Concentration, available as a BS degree, is designed for students desiring more advanced and intensive training with a broad range geospatial tools and technologies, such as Advanced GIS, Remote Sensing, and Digital Image Processing.

Career Opportunities

Because of the breadth of geography, there are a wide variety of career opportunities for geography graduates. These opportunities include careers in the following:

- surveying and geomatics
- geophysics
- wetlands delineation
- water quality analysis
- photogrammetry
- urban planning
- computer mapping and geospatial technologies
- environmental companies and state environmental agencies
- state transportation departments
- city, county, state, and federal government
- education
- historical preservation
- marketing agencies
- energy companies
- emergency management and law enforcement
- tourism & travel writing
- military

Geography's focus on spatial relationships, in conjunction with new advances in technology, have led to the development of new geographical tools —principally Geographic Information Systems (GIS) and Global Positioning Systems (GPS)—that are now used by many geographers in a wide variety of fields. Because these technologies can be applied within virtually any field (government, business, military, etc.) it is one of the fastest growing job fields and the demand for people with experience using them exceeds the supply. Aside from offering a track with our program that emphasizes these technologies, we also offer students an Interdisciplinary Minor in GSS that emphasizes GIS, remote sensing and computer cartography. The combination of a geography major and a GSS minor is highly marketable. With their broad background, geography graduates have an ability to see connections where others do not, and this enables geographers to work in many different fields. Geography literally offers a world of opportunities.

- Master of Science in Geographic Information Systems (p. 1771)
- Graduate Certificate in Geographic Information Systems (p. 1773)

Student Organizations and Activities

- **Geographers of Sam Houston (GOSH) -** GOSH is intended to enhance appreciation for geography through club-sponsored field trips, guest lectures, and other activities, and to promote camaraderie among geography students.
- **Gamma Theta Upsilon (GTU) -** GTU is the National Geography Honor Society and was established to promote geographic awareness and the pursuit of geographic knowledge. To be eligible for membership in this honor society, students must have at least 12 hours of geography coursework, a minimum GPA of 3.25 in their geography coursework, and an overall GPA of at least 3.0.

Internships

Educational and research opportunities using GIS are available through a variety of internship opportunities that will increase students' skills and employment opportunities.

Scholarships

- **COSET GRADUATE RECRUITMENT SCHOLARSHIP.** The College of Science and Engineering Technology (COSET) Graduate Recruitment Scholarship is a $1000 competitive scholarship awarded to outstanding students entering their first semester of a COSET master's program at SHSU and who have not been awarded a graduate assistantship. More information can be found on the College of Science and Engineering Technology website (https://www.shsu.edu/academics/science-and-engineering-technology/).
- **AMATO BROTHERS SCHOLARSHIP.** $3,000 per year; Recipient must be a full-time undergraduate or graduate student, majoring in any discipline, demonstrate financial need, and exhibit commitment to continue and complete their education. The recipient must maintain a 2.5 GPA or higher in major and overall.
- **COSET GRADUATE ACHIEVEMENT SCHOLARSHIP.** The College of Science and Engineering Technology (COSET) Graduate Achievement Scholarship is a $1000 competitive scholarship awarded to students demonstrating outstanding academic progress in a COSET master's program. More information can be found on the College of Science and Engineering Technology website (https://www.shsu.edu/academics/science-and-engineering-technology/).

- **THE GRADUATE STUDIES SCHOLARSHIP:** The Graduate Studies Scholarship is intended for high-quality students in SHSU graduate programs. Nominations will be accepted for both new and current students. Application Open: Scholarship Application Form (http://www.shsu.edu/dept/graduate-studies/forms/The%20Graduate%20School%20General%20Scholarship%20Application%20Form.pdf) (Updated 9/13/18)
- **JAMES ELLISON KIRKLEY AWARD:** Two awards (amounts vary) to majors in history, political science, geography, or sociology. Recipients are selected on basis of high academic achievement.
- For more scholarship opportunities please visit**,** Paying For School. (https://www.shsu.edu/dept/graduate-studies/paying-for-school.html)

Director/Chair: **Joseph C Hill**

Samuel Adu-Prah, PHD (sxa054@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MSED, Alcorn State University; MPHIL, University of Cambridge; BA, University of Ghana

Donald P. Albert, PHD (geo_dpa@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of N Carolina-Chapel Hill; MA, Appalachian State University; BS, Salem State College

Leila Dolce Character, PHD (leilacharacter@shsu.edu), *Assistant Professor of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BS, Univ of The South

Brian Jay Cooper, PHD (bio_bjc@shsu.edu), *Associate Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Virginia Polytechnic&State U; MS, Virginia Polytechnic&State U; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Joshua M Gilliland, PHD (jmg177@shsu.edu), *Assistant Professor Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, LSU & A&M College; MS, Western Kentucky University; BS, University of Tulsa

Ross Joseph Guida, PHD (ross.guida@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MS, Univ of Nevada-Las Vegas; BA, Univ of Wisconsin-Eau Claire

John P Harris, PHD (jph020@shsu.edu), *Associate Professor of Geology of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Texas A&M University; MS, Univ of Arkansas-Fayetteville; BS, Univ of Arkansas-Fayetteville

Joseph C Hill, PHD (jch031@shsu.edu), *Associate Professor and Chair of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Missouri-Columbia; PHD, Univ of Missouri-Columbia; MS, Univ of Tennessee-Knoxville; MS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville

Mark R Leipnik, PHD (geo_mrl@shsu.edu), *Professor of Geography and Geology*, *Department of Environmental & Geosciences*, PHD, Univ of Calif-Santa Barbara; MBA, Rice University; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Falguni Shyamal Mukherjee, PHD (fsm002@shsu.edu), *Associate Dean of The Graduate School, Ombuds, and Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Wisconsin-Milwaukee; MS, Univ of Texas At Dallas; BE, Birla Institute of Tech & Sci

Velvet A Nelson, PHD (van001@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Kent State University; MA, East Carolina Univ; BSBA, West Liberty State College

John B Strait, PHD (jbs008@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Georgia; MA, Georgia State University; BA, Wittenberg University

Master of Science in Geographic Information Systems

The applied Geographic Information System (GIS) graduate program gives students the critical knowledge to succeed in the challenging world of geospatial technologies. This includes advanced classes and labs in GIS (ArcGIS, ArcGIS Pro, and ArcGIS Online); remote sensing (ERDAS IMAGINE); web-based mapping; model builder; programming; spatial databases; and spatial analysis. This program is designed to enhance an individual's knowledge in geographic information science and technology. Additionally, applications of the technology in the oil and gas industry, public health sector, environmental management, forestry, criminal justice, transportation planning, parcel mapping, local government, law enforcement, national security, and market research are featured.

The GIS master's program offers two tracks; a thesis and non-thesis option, both of which are comprised of a mix of face-to-face and online classes. The face-to-face courses are offered at Sam Houston State University's branch campus in the The Woodlands, Texas. At this time, a 100% online degree is not available.

The Master's in Geographic Information Systems (GIS) program is designed to prepare students for successful careers using geospatial analyses. Our comprehensive curriculum develops strong scientific and geospatial qualifications, advanced geospatial management and business skills, and expertise in applying geospatial technology. Graduates will learn how to leverage GIS to promote economic activity, enhance environmental sustainability, and address global challenges. This program equips students with the technical knowledge, practical skills, and industry insights necessary to make a significant impact across various sectors of the rapidly evolving GIS field.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/geographic-information-systems/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Due Dates for Application

Final due dates for application:

Fall admission: August 1
Spring admission: December 15
Summer: May 15

Preferred Application dates for consideration for assistantship funding purposes:

Fall (registration opens early April):

- Application Deadline: 1/15
- Notification Deadline: 3/15

Spring (registration opens November):

- Application Deadline: 7/1
- Notification Deadline: 9/1

Applicants seeking admission to the Master of Science in Geographic Information Systems must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work (Bachelor's degree required). International students must submit third party evaluation of official transcripts for degrees from universities outside the United States.
4. TOEFL scores for international students
5. Two letters of recommendation, with at least one from a faculty member in the student's major at the degree-granting institution.
6. Resume/Curriculum Vitae
7. Statement of purpose (500-1000 words) that explains:

Educational/professional background, GIS/geo-technique experience & interests, description of current and/or past involvement and employment using GIS and Remote Sensing technologies, motivation for graduate study, career and/or educational goals, expected outcome of program, as well as interest in thesis or non-thesis options.

GPA minimum of 3.0. If GPA less than 3.0, applicants must have 5 years of relevant GIS work experience.

Applicants that are accepted for admission and that are interested in pursuing a thesis are encouraged to contact a GIS faculty member in the Department of Environmental and Geosciences prior to enrolling in the program.

The degree requires successful completion of thirty-six hours of graduate credit. Students pursuing thesis would complete 30 hours of course work, plus 6 hours of thesis research.

Requirements specified in the degree plan are subject to minor modification. All graduate coursework must be approved by the GIS Graduate Program Coordinator or a graduate advisor.

Plan 1 - MS in Geographic Information Systems (Non-Thesis Option)

Code	Title	Hours
Master of Science in Geographic Information Systems (Non-thesis option)		
Specified Courses		
GEOG 5361	Geographic Information	3
GEOG 5362	GIS Principles and Application	3
GEOG 5365	Digital Image Processing	3
GEOG 5366	Cartography And Visualization	3
GEOG 5310	GIS Project Management	3
Elective Courses		
Select seven of the following: [1]		21
GEOG 5075	Selected Problems in Geography	
GEOG 5311	GIS in Law Enforcement	
GEOG 5314	GIS for Professionals	
GEOG 5315	Spatial Database	
GEOG 5363	Web GIS	
GEOG 5364	Spatial Analysis	
GEOG 5367	GIS Programming	
GEOG 5369	Internship in GIS	
GEOG 5371	Geographic Information Systems in Engergy-Related Fields	
GEOG 5373	Introduction to LiDAR & Radar	
GEOG 5374	Advanced GIS Analysis	
Total Hours		**36**

Plan 2 - MS in Geographic Information Systems (Thesis Option)

Code	Title	Hours
Master of Science in Geographic Information Systems (Thesis option)		
Specified Courses		
GEOG 5361	Geographic Information	3
GEOG 5362	GIS Principles and Application	3
GEOG 5365	Digital Image Processing	3
GEOG 5366	Cartography And Visualization	3
GEOG 5310	GIS Project Management	3
Select five of the following electives: [1]		15
GEOG 5075	Selected Problems in Geography	
GEOG 5311	GIS in Law Enforcement	
GEOG 5314	GIS for Professionals	
GEOG 5315	Spatial Database	
GEOG 5363	Web GIS	
GEOG 5364	Spatial Analysis	
GEOG 5367	GIS Programming	
GEOG 5369	Internship in GIS	
GEOG 5371	Geographic Information Systems in Engergy-Related Fields	
GEOG 5373	Introduction to LiDAR & Radar	
GEOG 5374	Advanced GIS Analysis	
Thesis		
GEOG 6398	Thesis I	3

GEOG 6099	Thesis II [2]	3
Total Hours		**36**

1 Students may select graduate level electives from other departments with advisor approval.
2 Once enrolled in GEOG 6099, students must continuously enroll in this course until graduation.

The MS in Geographic Information Systems is designed to provide graduates with the following marketable skills:

- Hands-on technical skills in GIS and Remote Sensing softwares, viz. ArcGIS Pro, ArcGIS Online for Organizations (AGOL), ERDAS Imagine, QGIS, etc.
- Comprehensive understanding of the data models and structures used in the input, management, analysis, and output of various geographic data.
- Use Python programming language to complete geoprocessing tasks. Ability to carry out specialized tasks, such as map scripting, debugging, error handling, creating and sharing custom tools using Python scripts, and creating Python functions and classes in ArcGIS environment.
- Thorough understanding of the critical steps necessary in order to successfully implement a GIS project within an organization and ability to conduct evaluations of GIS-related technology and assess their appropriateness for a particular purpose, project or application.
- Share GIS content on the Web or across the enterprise; publish maps, imagery, and geoprocessing models on the web; create and publish feature templates for use in Web applications that support visualization, analysis, and editing of GIS resources.
- Knowledge of image acquisition, image enhancement, image restoration, color image processing, image segmentation, image compression, image recognition, image quality assessment, and statistical evaluation and change detection.
- Cartographic visualization skills and various statistical and graphical approaches for mapping and visualization techniques.

Graduate Certificate in Geographic Information Systems

The Department of Environmental and Geosciences at SHSU offers a GIS Graduate Certificate to provide students with GIS skills required in today's job market. The GIS Graduate Certificate curriculum is developed with the objective of providing a solid hands-on experience in GIS applications. Students enrolled in the GIS Graduate Certificate program at SHSU will learn to use and apply technological tools and skills in their areas of expertise as well as in several major application areas. This includes use of GIS in infrastructure management, the oil and gas industry, public health, planning, and business applications. The curriculum will provide students with hands-on experience in major GIS and remote sensing vendor-specific as well as open source software packages, such as ArcGIS, ArcGIS Pro, ArcGIS Online, ERDAS IMAGINE, Python programming, Geoda, and Fusion. Students will learn:

- different spatial data structures and their essential properties;
- principles and methods for collecting spatial data;
- principles of map design and effective cartographic communication;
- methods of spatial analysis, ways spatial data can be used to investigate complex problems; and
- how to customize GIS software to meet organizational needs.

The program is intended to serve:

- recent graduates who wish to acquire technical expertise to support the knowledge gained in their undergraduate major;
- returning students who wish to acquire specialized training to meet current or future job requirements; and
- students at the graduate level who wish to demonstrate a level of mastery of the subject area by obtaining a certificate.

This Graduate Certificate is eligible to receive Title IV funding – Direct Unsubsidized Loans and Graduate PLUS loans by request. To be considered for aid, students need to submit a Free Application for Federal Student Aid (FAFSA).

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/certificate/geographic-information-systems/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to pursue a **Graduate Certificate in Geographic Information Systems** must submit to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html) the same materials required for application to graduate program:

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work (Bachelor's degree required). International students must submit third party evaluation of official transcripts for degrees from universities outside the United States.
4. TOEFL scores for international students
5. Two letters of recommendation, with at least one from a faculty member in the student's major at the degree-granting institution.

6. Resume/Curriculum Vitae
7. Statement of purpose (500-1000 words) that explains:

a) Educational/professional background, b) GIS/geo-technique experience & interests, c) description of current and/or past involvement and employment using GIS and Remote Sensing technologies, d) motivation for graduate study, e) career and/or educational goals, f) expected outcome of program, as well as g) interest in thesis or non-thesis options.

GPA – minimum of 3.0. If GPA less than 3.0, applicants must have 5 years of relevant GIS work experience.

Students must complete a minimum of 15 graduate credits.

Due Dates for Application

Final due dates for application

Fall admission – August 1

Spring admission – December 15

Summer – May 15

Preferred Application dates

Fall (registration opens early April): Application Deadline, 1/15 Notification Deadline, 3/15

Spring (registration opens November): Application Deadline, 7/1 Notification Deadline, 9/1

Code	Title	Hours
Graduate Certificate in Geographic Information Systems		
Required Courses		
GEOG 5361	Geographic Information	3
GEOG 5362	GIS Principles and Application	3
GEOG 5365	Digital Image Processing	3
GEOG 5366	Cartography And Visualization	3
GEOG 5310	GIS Project Management	3
Total Hours		**15**

Note: The GIS graduate certificate is also offered in coordination with the MS in Geographic Information Systems (https://www.shsu.edu/programs/graduate/geographic-information-systems/).

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The Graduate Certificate in Geographic Information Systems is designed to provide graduates with the following marketable skills:

- Integrate data from a variety of sources, viz. surveys, satellite images, and digitized images, and then utilize the information to build, maintain and update databases.
- Review geospatial datasets and maps for quality.
- Create maps and graphic representations with multiple layers of information for visualization purposes.
- Analyze geospatial data to find patterns, trends and connections to guide project planning and strategy.
- Use GIS software, viz. ArcGIS Pro, QGIS, etc. for data modeling, cartographic visualization.

Department of Mathematics and Statistics

Chair: Dr. Damon Hay (dhay@shsu.edu), (936) 294-4859

Contact Information: (936) 294-1564

Website: Department of Mathematics and Statistics (http://www.shsu.edu/academics/mathematics-and-statistics/)

Mission

The Department of Mathematics and Statistics will provide all students with the opportunity to receive an educational experience in mathematics and statistics of the highest quality, both inside and outside the classroom. By actively engaging in research and professional development, the faculty will promote quality scholarship among themselves as well as their students.

Highlights

- Opportunities for research through numerous grants with industry, government and education agencies
- Support for travel and presentations at local and national professional meetings
- Opportunities for discipline-related employment, including classroom teaching, grading and tutoring

Career Opportunities

- Accounting and Finance
- Computer Programming
- Data Science
- Sales and Marketing
- Management and Related Positions
- Actuarial Science
- Computer Systems Analysis
- Engineering
- Statistics
- Mathematics
- Operations Research
- Modeling
- Academic Positions - High School or College

- Master of Arts in Mathematics (p. 1778)
- Master of Science in Mathematics (p. 1779)
- Master of Science in Statistics and Data Science (p. 1780)

Student Organizations

- American Mathematical Society (AMS) Student Chapter
- Mathematical Association of America (MAA)
- Pi-Mu-Epsilon Mathematics Honor Society
- Stat Club

Assistantships

The Department of Mathematics and Statistics offers a significant number of graduate teaching assistantships each year. For more information, call (936) 294-1564.

Scholarships

The Department of Mathematics and Statistics offers several scholarships each year and Sam Houston State University offers additional, university-wide scholarships. For information on departmental scholarships, visit the departmental website (https://www.shsu.edu/academics/mathematics-and-statistics/scholarships.html). Information on University scholarships may be obtained from the Financial Aid and Scholarships Office (http://www.shsu.edu/dept/financial-aid/scholarships/).

Director/Chair: **Damon Martin Hay**

John G Alford, PHD (jga001@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Calif-Los Angeles

Emma Kathleen Price Bullock, PHD (exb051@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Utah State University; MMATH, Utah State University; BS, Brigham Young University

Ferry Butar Butar, PHD (mth_fbb@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Lincoln; BS, Academy of Statistics; DRS, University of Indonesia

Scott Thomas Chapman, PHD (stc008@shsu.edu), *Distinguished Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Univ of N Carolina-Chapel Hill; BS, Wake Forest University; BS, Wake Forest University

Beth L Cory, PHD (blc006@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, University of Virginia - SFS; MS, Florida State University; BS, Liberty University

Brandy Guntel Doleshal, PHD (bdoleshal@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Texas At Austin; BA, Indiana University; BS, Indiana University

Di Gao, PHD (dxg085@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, North Dakota State University; MA, Univ of Missouri-Columbia; BEC, Tianjin University; BBA, Tianjin University

Damon Martin Hay, PHD (dhay@shsu.edu), *Associate Professor and Chair of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Texas At Austin

Melinda Ann Holt, PHD (mxm014@shsu.edu), *Professor of Statistics and Dean, COSET*, *Department of Mathematics & Statistics*, PHD, Baylor University; MA, Baylor University; BA, Baylor University

William A. Jasper, PHD (mth_waj@shsu.edu), *Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Univ of Southern California; BS, Lafayette College

Dustin L Jones, PHD (dljones@shsu.edu), *Adjunct Faculty; Associate Dean COSET and Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Univ of Missouri-Columbia; MS, Texas A&M University; BS, Southwest Baptist University

Ram Chandra Kafle, PHD (rckafle@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MS, Univ of Akron; MS, Tribhuvan University; BS, Tribhuvan University

Doo Young Kim, PHD (dkim@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Ball State University; BS, Gachon University

Naomi Lynne Krawzik, PHD (stdnlv11@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Sam Houston State University; BS, Alma College

Martin E Malandro, PHD (mem037@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Dartmouth College; AM, Dartmouth College; BS, Texas Tech University

Ananda Bandulasiri Manage, PHD (amanage@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; MS, Sam Houston State University; BS, University of Kelaniya

Taylor Elizabeth Martin, PHD (taylor.martin@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Rice University; MA, Rice University; BA, Univ of Rochester; BS, Univ of Rochester

Giuseppe Martone, PHD (gxm120@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Southern California; MS, University of Rome, Sapienza; BS, University of Rome, Sapienza

Chi Hoang Do Phan, PHD (chp007@shsu.edu), *Assistant Professor of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of South Florida

Amy E Ray, PHD (aer066@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Michigan State University; MS, Michigan State University; MED, Texas Christian University; BS, Texas Christian University

Supun Thamara Samarakoon, PHD (ssamarakoon@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, University of Colombo

Stephen Mark Scariano, PHD (sms049@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; BS, Loyola Univ-New Orleans

Mary B Swarthout, PHD (mbs001@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Ohio State University; MA, Miami University; BA, Berea College

Edward W. Swim, PHD (ews007@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Colorado School of Mines; BS, Angelo State University

Timothy O Trujillo, PHD (txt031@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Denver; MS, New Mexico Inst/Mining/Tech; BS, New Mexico Inst/Mining/Tech

Linda Reichwein Zientek, PHD (lrz002@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Sam Houston State University

Master of Arts in Mathematics

The Master of Arts in Mathematics is a thirty-six hour, non-thesis program designed for those who desire to teach undergraduate community college-level and/or dual-credit or AP-level high-school mathematics classes. Recipients of the MA degree are also prepared for admission to a doctoral program in mathematics education. The MA in Mathematics program is an online program; however, it can accommodate students who wish to take some face-to-face courses.

Students who wish to work in industry, teach at the upper post-secondary level, or pursue doctoral studies in mathematics are encouraged to pursue the MS in Mathematics.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/mathematics/ma.html) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in Mathematics must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

- Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
- Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
- Official transcript(s) of all previous college work
- Two letters of recommendation

An overall undergraduate GPA of 3.0 or higher is preferred for admission into the Mathematics program. However, GPA is not the sole criterion for admission. Based on a review of an applicant's undergraduate transcript, the Department of Mathematics and Statistics may require completion of undergraduate stem courses as a condition for admission. Required prerequisites include three semesters of calculus and one semester of linear algebra.

The degree requires a minimum of thirty-six hours of graduate credit. An oral comprehensive examination covering the four core MA courses is administered by the advisory committee for each degree candidate. The oral examination must be scheduled with the Graduate Advisor at least three weeks in advance. Students must be enrolled in the MA program during the semester in which they take the comprehensive examination. Requirements specified in the degree plan are subject to minor modification by the department. Also, to ensure a balanced program, all electives must be approved by the department chair or an authorized representative of the graduate Mathematics faculty.

Code	Title	Hours
Master of Arts in Mathematics		
Required Courses		
MATH 5380	Research Project In Mathematics Education	3
MATH 5386	Concepts in Modern Algebra	3
MATH 5387	Transformational Geometry	3
MATH 5388	Concepts in Analysis	3
MATH 5389	Concepts in Probability and Statistics	3
Prescribed Electives		
Select three graduate courses in MATH		9
Additional Coursework		
Select 12 hours of the following:		12
Graduate courses in a second teaching field [1]		
Graduate MATH courses		
Graduate STAT courses		
Combination of graduate credit in the following areas: Computer Science, Mathematics, Statistics, Secondary Education		
Total Hours		**36**

[1] Selections must be made in consultation with the Graduate Advisor.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MA in Mathematics is designed to provide graduates with the following marketable skills:

- Teach mathematics at the secondary and post-secondary levels.
- Analyze quantities, magnitude, forms, and their relationships using symbolic logic and language.
- Apply mathematics and statistics to the solution of general problems of interest.

Master of Science in Mathematics

In the MS in Mathematics program students take courses in the fundamental areas of advanced pure and applied mathematics. Small class sizes and close mentoring by faculty create a positive environment designed to help students succeed in their academic and life goals. Graduates of this program have a more comprehensive and deeper view of mathematics, leading to diverse career opportunities in teaching, industry, or doctoral studies in mathematics. Past graduates are employed at community colleges and universities, in actuarial science, computer science, accounting/finance, and the oil and gas industry. A thesis option is available for students interested in doing mathematical research in the areas of combinatorics, commutative algebra, noncommutative algebra, algebraic statistics, graph theory, group theory, functional analysis, topology, knot theory, applied mathematics, numerical analysis, mathematical biology, and differential equations.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/mathematics/ms.html) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in Mathematics must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/dept/graduate-admissions/prospective-students.html):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work
4. Three letters of recommendation from the Mathematics or Statistics faculty at the student's undergraduate degree-granting institution

An overall undergraduate GPA of 3.0 or higher is preferred for admission into the Mathematics program. Based on a review of an applicant's undergraduate transcript, the Department of Mathematics and Statistics (https://www.shsu.edu/academics/mathematics-and-statistics/) may require completion of undergraduate stem courses as a condition for admission.

The degree requires a minimum of thirty-six hours of graduate credit. A comprehensive examination in each of algebra and analysis is administered by the Mathematics Graduate Committee at the beginning of the second year of the program. Requirements specified in the degree plans are subject to minor modification by the department. To ensure a balanced program, all electives must be approved by the graduate advisor.

Master of Science (M.S.) in Mathematics (Thesis)

Code	Title	Hours
Master of Science in Mathematics (Thesis)		
Required Courses		
MATH 6333	Foundations Of Analysis I	3
MATH 6334	Foundations Of Analysis II	3
MATH 6335	Algebra I	3
MATH 6336	Algebra II	3
MATH 5397	Discrete Mathematics	3
MATH 6332	Introduction To Topology	3
MATH 6368	Numerical Linear Algebra	3
MATH 6379	Functions Of Complex Variable	3
Prescribed Electives		
Select two graduate courses in MATH in consultation with the Graduate Advisor		6
Additional Coursework		
MATH 6099	Research and Thesis	3
MATH 6398	Research And Thesis	3
Total Hours		**36**

Master of Science (M.S.) in Mathematics (Non-Thesis)

Code	Title	Hours
Master of Science in Mathematics (Non-Thesis)		
Required Courses		
MATH 6333	Foundations Of Analysis I	3
MATH 6334	Foundations Of Analysis II	3

MATH 6335	Algebra I	3
MATH 6336	Algebra II	3
MATH 5397	Discrete Mathematics	3
MATH 6332	Introduction To Topology	3
MATH 6368	Numerical Linear Algebra	3
MATH 6379	Functions Of Complex Variable	3
MATH 6380	Research Methods in Mathematics	3
or MATH 5300	Mathematics Internship	
Prescribed Electives		
Select three graduate courses in MATH selected in consultation with the Graduate Advisor		9
Total Hours		**36**

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Mathematics is designed to provide graduates with the following marketable skills:

- Expertise in mathematical analysis and problem solving that is applicable in a wide variety of industry-related positions.
- Expertise in mathematical writing.
- Experience in multiple phases of course preparation and teaching of mathematics at the freshman level.
- Preparation for further study at the doctoral level in mathematics and other closely related areas.

Master of Science in Statistics and Data Science

The Master of Science in Statistics and Data Science is a thirty-six hour program designed to produce professionally competent statisticians who will be able to accept positions in business, industry and public service. The degree also provides the academic foundations needed to pursue doctoral studies. The program may be completed with or without a thesis.

Additional information: Reference the Program Landing Page (https://www.shsu.edu/programs/graduate/statistics/) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Applicants seeking admission to the graduate program in Statistics and Data Science must submit the following directly to the Office of Graduate Admissions (https://www.shsu.edu/beabearkat/graduate-journey/):

1. Graduate Application (http://www.shsu.edu/admissions/apply-texas.html)
2. Application fee (http://www.shsu.edu/dept/graduate-studies/application-fee.html)
3. Official transcript(s) of all previous college work
4. Official GRE scores. GRE is recommended but not required. Although it is not required, the graduate admissions committee will use it in ranking purposes.
5. Official TOEFL or IELTS scores (for international applicants)
6. Three letters of recommendation

An overall undergraduate GPA of 3.0 or higher is preferred for admission into the Statistics and Data Science program. However, GPA and GRE scores do not constitute the primary criteria for admission. Based on a review of an applicant's undergraduate transcript, the Department of Mathematics and Statistics may require completion of undergraduate stem courses as a condition for admission.

The degree requires a minimum of thirty-six hours of graduate credit. An oral comprehensive examination is administered by the advisory committee for each degree candidate. The oral examination must be scheduled with the Graduate Advisor at least three weeks in advance. Students must be enrolled the semester in which they take the comprehensive examination. Requirements specified in the degree plan are subject to minor modification by the department. Also, to ensure a balanced program, all electives must be approved by the graduate advisor or an authorized representative of the graduate Statistics faculty.

Master of Science (MS) in Statistics and Data Science (Thesis option)

Code	Title	Hours
Master of Science in Statistics and Data Science (Thesis)		
Specified Courses		
STAT 5333	Design and Analysis of Experiments [1]	3

or STAT 5390	Statistical Learning	
STAT 5361	Theory and Application of Probability	3
STAT 5362	Theory and Application of Statistics	3
STAT 5364	Applied Multivariate Statistical Analysis	3
STAT 5368	Regression Modeling & Analysis	3
Electives		
Select five from the following:		15
MATH 5360	Special Topics	
STAT 5333	Design and Analysis of Experiments [1]	
STAT 5360	Special Topics In Statistics	
STAT 5365	Linear Statistical Models	
STAT 5366	Sampling Methods	
STAT 5367	Reliability Analysis and Quality Control	
STAT 5369	Statistical Computing and Consulting	
STAT 5370	Nonparametric Statistics	
STAT 5390	Statistical Learning	
STAT 6060	Independent Study	
STAT 6366	Applied Bayesian Analysis	
STAT 6375	Biostatistics	
STAT 6376	Time Series Analysis	
STAT 6377	Introduction to Survival Analysis	
STAT 6378	Longitudinal Data Analysis	
Thesis		
STAT 6099	Research and Thesis	3
STAT 6398	Research And Thesis	3
Total Hours		**36**

[1] If STAT 5333 is taken as a Specified Course, it cannot be taken as an Elective.

Master of Science (MS) in Statistics and Data Science (non-thesis option)

Code	Title	Hours
Master of Science in Statistics and Data Science (Non-thesis)		
Specified Courses		
STAT 5333	Design and Analysis of Experiments [1]	3
or STAT 5390	Statistical Learning	
STAT 5361	Theory and Application of Probability	3
STAT 5362	Theory and Application of Statistics	3
STAT 5364	Applied Multivariate Statistical Analysis	3
STAT 5368	Regression Modeling & Analysis	3
STAT 6380	Statistics Practicum	3
Electives		
Select six from the following:		18
MATH 5360	Special Topics	
STAT 5333	Design and Analysis of Experiments [1]	
STAT 5360	Special Topics In Statistics	
STAT 5365	Linear Statistical Models	
STAT 5366	Sampling Methods	
STAT 5367	Reliability Analysis and Quality Control	
STAT 5369	Statistical Computing and Consulting	
STAT 5370	Nonparametric Statistics	
STAT 5390	Statistical Learning	
STAT 6060	Independent Study	

STAT 6366	Applied Bayesian Analysis	
STAT 6375	Biostatistics	
STAT 6376	Time Series Analysis	
STAT 6377	Introduction to Survival Analysis	
STAT 6378	Longitudinal Data Analysis	
MATH 6394	Scientific Computation	
Total Hours		**36**

[1] If STAT 5333 is taken as a Specified Course, it cannot be taken as an Elective.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The MS in Statistics and Data Science is designed to provide graduates with the following marketable skills:

- Analyze data to solve problems in a wide variety of industries.
- Develop statistical models and communicate the results in professional reports.
- Experience with multiple phases of course preparation or teaching introductory statistics courses.
- Preparation for further study at the doctoral level in statistics or closely related areas.

Department of Physics and Astronomy

Chair: Joel W. Walker, Ph.D. (jwalker@shsu.edu)

Contact Information: (936) 294-4803

Website: Department of Physics and Astronomy (http://www.shsu.edu/academics/physics/)

Program Summary

Physics and Astronomy are for creative and curiously-minded students who want a shot at cracking Nature's secret source code — people who are excited by questions like “What happened right after the Big Bang?”, “How does time warp near a black hole?”, or “Can atomic systems coexist in multiple realities at once?”

Physics and Astronomy are for inventive and enterprising students who want to design humanity's future — people who are motivated by questions like "Can clean fusion energy propel equitable access to technology and resources?", "How will quantum computing revolutionize our link with information?", or "When will self-sustaining communities be established on Mars?"

Physicists work to understand the most basic laws of nature in the most simple and general way possible. Physicists likewise apply this understanding to solving engineering and design problems in every facet of modern life. Our faculty specialize in Materials Science (exploring properties of dense atomic systems computationally and with x-ray / atomic-force imaging, and designing superior molecular compounds for engineering applications like batteries and superconductors) and Particle Physics (theory and high-performance computer simulation involving elementary constituents of matter and their interactions, the Large Hadron Collider in Switzerland, the search for dark matter, and mysterious properties of the neutrino).

Astronomers seek to understand our place in the Universe, and to unravel clues about its history from light reaching us across the expanse of space. Our faculty take a special interest in the data-based improvement of approaches to science education, and have research expertise in the topics of stellar spectroscopy and ionized gas in spiral galaxies. The university observatory houses several telescopes for in-person stargazing, and our indoor planetarium provides immersive simulations of the night sky as viewed from any location and date.

Vision & Mission

The Department of Physics and Astronomy at Sam Houston State University will be a preferred source of technically equipped employees and scholars, and a vital participant in the global pursuit of fundamental scientific knowledge.

- Faculty will make meaningful professional contributions to their respective research disciplines and actively mentor their students in the practice of scientific investigation.
- Students majoring in physics and pre-engineering, and minoring in astronomy, will be effectively prepared to confront the quantitative, conceptual, and analytical challenges associated with a related career or continuing education.
- All students, including those from other degree programs, will be exposed to the sciences in a manner which nurtures curiosity and develops critical thinking and problem-solving skills that may be usefully projected onto their various professional endeavors and roles in society.

Academic Programs

The Department of Physics and Astronomy currently offers only undergraduate degree programs. See the current undergraduate catalog for more details.

Courses

The Department of Physics and Astronomy does not currently offer graduate courses. Please consult the current undergraduate catalog for course offerings.

Dual Degree Programs

Sam Houston State University offers dual-degree programs to help students meet their specific career interests. In addition, a dual-degree program allows students to double-count some credits, shortening the completion time for both programs. Students enrolling in a dual-degree program must apply separately and meet admissions requirements for both programs. Upon dual-degree program completion, students will receive two diplomas.

- Doctor of Osteopathic Medicine and Master of Public Health (p. 1785)

Doctor of Osteopathic Medicine and Master of Public Health

The College of Osteopathic Medicine and the College of Health Sciences offers a concurrent degree program that provides a consistent pathway for academically driven osteopathic medical students to complete a Master of Public Health while pursuing the Doctor of Osteopathic Medicine degree. Graduate students in the joint program obtain valuable experiences through community engagement activities, research projects, clinical rotations, and interactions with public health professionals, which foster positive learning opportunities. In addition, by pursuing both the Doctor of Osteopathic Medicine and the Master of Public Health concurrently, students can complete both degrees in a shorter time period (4-5 years) than if they were to pursue the two independently (6 years).

Application to the joint degree program is continuous, and students have an opportunity to apply to the program during the fall, spring, and summer semesters.

Students must meet the following requirements for admittance to the Doctor of Osteopathic Medicine and Master of Public Health dual degree program:

- Successful acceptance to the SHSU Doctor of Osteopathic Medicine (DO) degree program.
- Successful acceptance to the Master of Public Health (MPH) degree program.
- Achievement of a GPA of 3.00 or higher in major courses.
- Completion of the application requirements for the MPH program, payment of the application fees, and submission of the required documents to the Office of Graduate Admissions. (https://www.shsu.edu/beabearkat/graduate-journey/)
- Participation in an interview with the MPH admissions committee.
- Registration for MPH courses in accordance with the guidance provided by the MPH Administrative Associate.

Students accepted into the DO/MPH dual degree program will commence their MPH coursework in the summer prior to beginning the DO program.

The Doctor of Osteopathic Medicine and Master of Public Health dual degree program allows students to utilize up to nine credit hours of coursework across both degrees, therefore, saving time and money in completing both programs. In addition, physicians with an MPH degree typically command higher salaries compared to those with standalone DO degrees. Furthermore, graduates with the DO/MPH dual degree program enhance their career opportunities in working with underserved populations, research settings, and in leadership roles.

Students must meet all requirements for both the Doctor of Osteopathic Medicine (p.) (DO) and Master of Public Health (MPH) (p.)

Code	Title	Hours
Doctor of Osteopathic Medicine (DO) and Master of Public Health (MPH)		
MPH: Summer I		
HLTH 5355	Health Services Administration	3
HLTH 5376	Public Health Biostatistics	3
HLTH 6396	Health Program Planning/ Pre-Capstone	3
DO: Year I		
ANAT 7801	Clinical Anatomy	8
CMED 7201	Clinical Medicine 1	2
CMED 7304	Clinical Medicine 4	3
CMED 7402	Clinical Medicine 2	4
CMED 7403	Clinical Medicine 3	4
MEDS 7405	Hematopoietic System	4
MEDS 7504	Skin & Skeletal Muscle	5
MEDS 7803	Medical Microbiology and Immune System	8
OSTM 7301	Osteopathic Manipulative Medicine 1	3
OSTM 7302	Osteopathic Manipulative Medicine 2	3
REBM 7301	Research and Evidence-Based Medicine	3
SFOM 7801	Scientific Foundations	8
MPH: Summer II		
HLTH 5318	Current Topics in Environmental Health	3
HLTH 5353	Epidemiology	3
HLTH 5361	Social and Behavioral Determinants of Public Health	3
DO: Year II		
MEDS 7320	Systems Integration	3

MEDS 7404	Renal & Genitourinary	4
MEDS 7508	Endocrine & Reproductive	5
MEDS 7607	GI System & Nutrition	6
MEDS 7802	Neurologic & Behavior	8
MEDS 7806	Cardiovascular & Respiratory	8
OSTM 7303	Osteopathic Manipulative Medicine 3	3
OSTM 7304	Osteopathic Manipulative Medicine 4	3
MPH: Summer III		
HLTH 5350	Public Health and Social Justice	3
HLTH 5351	Immigrant and Refugee Health	3
HLTH 6352	Public Health Grant Writing	3
DO: Year III		
CLIN 7010	Elective Clerkship	32
CLIN 7401	General Surgery Clerkship	4
CLIN 7402	Adult Inpatient Medicine Clerkship	4
CLIN 7403	Emergency Medicine Clerkship	4
CLIN 7404	Psychiatry Clerkship	4
CLIN 7405	Family Medicine Clerkship	4
CLIN 7406	Pediatrics Clerkship	4
CLIN 7407	Ob/Gyn Clerkship	4
CLIN 7408	Rural & Underserved Medicine Clerkship	4
CLIN 7409	Adult Inpatient Med-II	4
CLIN 7414	Medicine Selective Clerkship	4
CLIN 7415	Surgery Selective Clerkship	4
MEDS 7318	Clinical Clerkship Preparation	3
OSTM 7233	3rd and 4th Year Longitudinal OMM Clerkship	2
MPH: Summer IV		
HLTH 5363	Management and Leadership for Health Professionals	3
HLTH 5365	Aging and Health Promotion	3
DO: Year IV		
CLIN 7411	Womens Health and Wellness	4
CLIN 7414	Medicine Selective Clerkship	4
CLIN 7415	Surgery Selective Clerkship	4
CMED 7304	Clinical Medicine 4	3
OSTM 7233	3rd and 4th Year Longitudinal OMM Clerkship	2
Total Hours		**226**

Course Descriptions

Accounting (ACCT)

ACCT 5080. Independent Study. 1-3 Hours.
Directed study in special topics in accounting. Variable credit (1 to 3). Course Equivalents: ACCT 5380
Prerequisite: Approval of Department Chair and Graduate Coordinator.

ACCT 5085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide graduate students exposure to new Accounting topics and concepts in a course setting. Variable Credit (1 to 3). Course Equivalents: ACCT 5385 .

ACCT 5300. Analysis of Accounting Information. 3 Hours.
Students are introduced to the accounting principles, concepts, procedures, and techniques underlying financial and managerial accounting and reporting with an emphasis on business and economic information generated in the accounting process and a study of their behavior for planning and control decisions. This course does not apply to the 36-hour graduate credit hour requirement of the MBA degree program or the 30-hour MS in Accounting degree.

ACCT 5302. Financial Reporting & Business Decisions. 3 Hours.
Students study and examine financial reporting from the point of view of management, creditors, and investors. The course specifically addresses how financing, investing, and operating decisions affect financial statements. The course also covers how creditors and investors use financial statements to assess the results of managers' decisions and the effect of alternative accounting methods on the quality of financial reporting. The course emphasizes the effect of internal accounting decisions on external financing and business decision making. The course is designed for non-Accounting majors.

ACCT 5304. Accounting For Management. 3 Hours.
Students examine and apply the concepts useful to management in the analysis of accounting data for the purposes of costing and income determination, decision making and control. The course typically includes readings, cases and discussion of planning and budgeting, activity-based costing, target costing, performance measurement, quality and environmental cost management. This course is designed for non-accounting majors.
Prerequisite: ACCT 2301 and ACCT 2302 or ACCT 5300.

ACCT 5311. Advanced Financial Reporting I. 3 Hours.
Part one of an in-depth study of advanced financial accounting and the financial reporting process. Students examine a variety of financial accounting concepts, learn to research financial accounting standards and then to apply these financial reporting principles and research skills to address real-world issues. Financial Accounting Standards Board's (FASB) and Securities and Exchange Commission (SEC) requirements for financial reporting are covered and include presentation and disclosure requirements for various areas of an entity's financial statements.
Prerequisite: Admission to the MS in Accounting Program.

ACCT 5312. Advanced Financial Reporting II. 3 Hours.
Part two of an in-depth study of advanced financial accounting topics. Building upon the skills developed in ACCT 5311, students continue to examine advanced financial accounting concepts, research financial accounting standards and practice applying their research skills and professional judgement to find solutions to real-world type financial accounting problems. In addition, this course addresses contemporary financial reporting topics.
Prerequisite: ACCT 5311.

ACCT 5315. Seminar in Accounting Theory. 3 Hours.
Students study accounting theory as well as a critical analysis of the history of the development of Generally Accepted Accounting Principles. Students research accounting literature, with the objective of critically evaluating the present status and future course of accounting thought as well as examine theoretical approaches to the solution of current problems in financial reporting.
Prerequisite: Admission to the MS in Accounting program.

ACCT 5324. Information System Auditing & Assurance. 3 Hours.
Students study the linkage between auditing concepts and professional standards and their application to information system principles, processing, and control. Professional practice and experience in the use of the computer as an audit tool is introduced through the use of Generalized Audit Software. Students are provided with an understanding and hands-on familiarity with skills necessary to assess controls over computerized information systems and to accomplish computer assisted auditing procedures to render an opinion regarding the integrity of financial information produced by those systems. Knowledge of these concepts help prepare the student to practice in a technologically enhanced auditing environment.
Prerequisite: Admission to the MS in Accounting Program.

ACCT 5333. Financial Statement Analysis. 3 Hours.
Students are provided an overview of the pertinent theoretics and various applications relevant to the analysis of financial statements by applying both finance and accounting principles. Readings and case studies are applied to provide a contemporary prospective.
Prerequisite: Admission to the MS in Accounting program.

ACCT 5347. Managerial Accounting Application. 3 Hours.
Students study and exam managerial accounting applications that address contemporary managerial issues and problems. Topics may include activity-based costing, target costing, quality costs, environmental costing, capacity costing, theory of constraints, costing for lean production, and other areas. Cases and exercises are used to provide professional practice and experience in the development and use of management accounting information for decision making and the role of the management accountant as part of the management decision making team.
Prerequisite: Admission to the MS in Accounting program.

ACCT 5352. Corporate & Pass Through Entity Taxation. 3 Hours.
Students study the Internal Revenue Code and related tax literature associated with corporate and pass through entity taxation. Students learn the concepts of forming, operating, and liquidating C Corporations, S Corporations, LLCs, and Partnerships. Federal tax returns are prepared for C Corporations, S Corporations and Partnerships. Tax research is emphasized and integrated into each of the above areas. Students obtain proficiency in the use of various internet and paper-based tax services and in the examination of related contemporary accounting literature.
Prerequisite: Admission to the MS in Accounting program.

ACCT 5355. Personal Tax Planning. 3 Hours.
Students examine concepts of estate and income tax planning to minimize taxes on property transfers and increase after-tax wealth. Topics may include lifetime gifts, successive life estates, trusts, retirement planning, employee benefits, education financing, insurance, annuities, charitable giving strategies, and tax research.
Prerequisite: Admission to the MS in Accounting program.

ACCT 5357. Multijurisdictional Taxation Concepts. 3 Hours.
Students examine concepts related to the taxation of business entities and individuals by international and state jurisdictions. The concepts of nexus, income allocation, and income apportionment issues as well as cross-border and international tax issues affecting activities of U.S. taxpayers are explored.
Prerequisite: ACCT 5352.

ACCT 5358. Tax Research, Practice & Procedure. 3 Hours.
Students examine various contemporary tax practices focused on research, communication, compliance, and entity planning.

ACCT 5360. Analytics in Accounting. 3 Hours.
Students concentrate on data acquisition, and the analysis, interpretation, presentation, and use of data in decision-making in an accounting context. Students gain hands-on experience with information technology used in the accounting profession. Project-oriented computer-based assignments are used to enhance students' knowledge and skills.
Prerequisite: Admission to the MS in Accounting program.

ACCT 5375. ERP Business Process Integration. 3 Hours.
This course utilizes the SAP information system paradigm as a model for examination and development of integrated business process solutions. The course examines the conceptual background, rationale, methods, and procedures commonly employed by businesses in developing and configuring integrated business systems. Cases and hands-on experience using SAP require students to configure a business process solution through integration of financial, controlling, production, materials management, sales and distribution, manufacturing, and other ERP process modules.
Prerequisite: Admission to the MS in Accounting program.

ACCT 5379. Professional Ethics & Responsibility. 3 Hours.
This course provides prospective accounting professionals an ability to apply philosophic moral theory to particular issues pertaining to the accounting profession. The course may include the examination of contemporary accounting literature related to ethical standards, ethical reasoning, integrity, objectivity, independence, and other core values. Emphasis is placed on dealing with controversial issues and examining the legal and professional responsibilities of public accountants. Topics also may include the examination of the state and AICPA Code of Professional Conduct and other governing authorities' pronouncements, such as SEC, IRS, and similar such bodies. Case studies and exercises with professional responsibility and ethical considerations in "real life" situations are interspersed throughout the curriculum.
Prerequisite: Admission to the MS in Accounting program, ACCT 5311, ACCT 5324, ACCT 5352, and 12 completed graduate credit hours, and concurrent enrollment in ACCT 5399.

ACCT 5382. Current Issues in Assurance Services. 3 Hours.
Students explore the dynamic and complex issues shaping the field of audit and assurance services. Students examine contemporary developments in assurance services, which may include innovations in audit practices, regulatory shifts, assurance on non-financial disclosures, and the impact of emerging technologies.

ACCT 5388. Employee Benefit Plan Accounting & Assurance. 3 Hours.
Students examine various accounting, compliance, and auditing issues related to different types of employee benefit plans. Financial reporting and regulatory filing requirements mandated by the federal government for employee benefit plans are also explored.

ACCT 5399. Advanced Auditing Theory & Practice. 3 Hours.
Students examine the theoretical and application issues of contemporary auditing as identified in the literature and by recent professional pronouncements. Topics may include internal control, control risk, legal liability of auditors, audit failure, audit risk, auditor responsibility for detection of fraud, and the evolving nature of the auditing profession in compliance with new audit standards. Case studies and exercises are used to address these and other topics of importance to professional auditing practice.
Prerequisite: Admission to the MS in Accounting program, ACCT 5311, ACCT 5324, ACCT 5352, and 12 completed graduate credit hours.

Agricultural Sciences (AGRI)

AGRI 5064. Agricultural Internship. 1-6 Hours.
A directed study utilizing industry to develop an understanding of agricultural production and management principles. Course Equivalents: AGRI 5364 .

AGRI 5096. Independent Study. 1-3 Hours.
Students engage in arranged, advanced experiential learning and professional activities through the practical application of agricultural skills and knowledge specific to their individual needs and goals. The topic of study is mutually selected and approved by the student and Agricultural Sciences faculty. Variable Credit (1 to 3).
Prerequisite: Departmental Approval.

AGRI 5300. Advanced Fusing Metals & Non-Metals. 3 Hours.
Students explore principles and techniques of bonding and fusing metallic materials by the electric and oxyacetylene processes. Students study fluxes, chemicals, and oxidants used in joining metal as well as the joining of non-metallic materials by mechanical and chemical means.

AGRI 5310. Mechanized Harvesting & Handling Agricultural Products. 3 Hours.
Students study the fundamentals of selection, service, and operation of agricultural harvesting machines as well as the analysis and development of mechanical systems to feed and care for livestock. In addition, storage and handling facilities for agricultural products are discussed.

AGRI 5330. Advanced Rural Utilities. 3 Hours.
Student study the selection and use of electrical equipment as related to efficiency and economy in agricultural production, processing and storage of feeds, forage crops and grain in connection with livestock enterprises.

AGRI 5337. Behavior & Management of Domestic Animals. 3 Hours.
Students study behavior associated with domesticated animals. The effects of selective breeding, physical and social environments, and the developmental stage on social organization are studied. Additionally, aggressive behavior, sexual behavior, productivity, and the training of domestic animals are examined. Note: Students who have taken ANSC 4337 may not take AGRI 5337.
Prerequisite: Graduate Standing.

AGRI 5340. Advanced Animal Growth & Performance. 3 Hours.
This course is an advanced study of physiological and endocrine factors affecting growth and performance of domestic animals. The course may include the study of meat animal growth and developmental processes as they affect body and carcass composition, carcass quality and retail value. NOTE: Student who have taken ANSC 4310 may not take AGRI 5340.
Prerequisite: Graduate standing.

AGRI 5341. Contemporary Animal Agriculture Issues. 3 Hours.
Students investigate contemporary issues in animal agriculture and the food/meat industry. Primarily using in-depth discussion and debates, students analyze issues from the standpoint of producers, consumers, processors, and societal forces. This course allows students to explore differing viewpoints on an issue and prepare them to encounter these issues in their professional career.

AGRI 5350. Advanced Principles of Livestock Management. 3 Hours.
Students engage in a survey of current knowledge and concepts of beef production with emphasis on the stocker/feedlot segment. Includes feeding, management, marketing and disease control of stocker and feedlot cattle.

AGRI 5351. Agricultural Biosecurity. 3 Hours.
Students study the potential spread and prevalence of contagious organisms, reproductive diseases and contaminants in the agriculture, food, fiber, and natural resource industries. Concepts dealing with isolation, resistance, sanitation, containment, transportation, and food safety issues and potential economic impact to the agricultural industry and others are major topics. Note: Students who have taken AGRI 4350 may not take AGRI 5351.
Prerequisite: Graduate Standing.

AGRI 5360. Contemporary Agricultural Business Issues. 3 Hours.
Students analyze and discus current issues in agricultural business with appropriate principles and theories. Issues may include marketing, management, finance, policy, international, legal and ethical topics. Student participation is expected via reports throughout the semester or term reports.

AGRI 5361. Agricultural Policy. 3 Hours.
Students engage in an advanced analysis of government policies and programs important to agriculture. Topics may include: the policy making process and leaders, interest groups, organization and functions of federal and state agencies, policies relevant to production agriculture and natural resources, rural development, consumer and food safety, international marketing and food distribution.

AGRI 5362. Principles of Crop Protection. 3 Hours.
Students study the diagnosis, epidemiology, and control of plant pests. Causative and limiting factors are stressed. Designed for prospective or practicing teachers and technicians in the agro-chemical industry or in federal or state plant pest control agencies.

AGRI 5369. Special Topics in Advanced Agriculture. 3 Hours.
Students examine advanced special topics/issues and (or) subject matter in the field of Agricultural Science. The sub-divisional fields offered are: Agriculture, Animal Science, Agricultural Business, Horticulture and Crop Science, and Agricultural Mechanization. This course may be repeated as topics and subject matter change.

AGRI 5370. Food and Fiber Crops. 3 Hours.
Students study traditional plant breeding techniques and an overview of contemporary crop improvement methods. The physiology, adaptation, classification, taxonomy, and utilization of major crop species used for production of food and fiber are covered. Genetic and environmental influences on crop quality are discussed.

AGRI 5371. Agricultural Safety & Health. 3 Hours.
Students examine the hazards and necessary safety precautions associated with the food, fiber, natural resources and agricultural industry. Control strategies are explored, and prevention methods identified. Hazards examined include machinery, livestock, controlled spaces, pesticides, and other issues common to the food, fiber, natural resources, and agricultural industry. Note: Students who have taken AGRI 4371 may not take AGRI 5371.
Prerequisite: Graduate Standing.

AGRI 5374. Agricultural Statistics. 3 Hours.
This course explores applications of statistical methods for making interpretations of qualitative and quantitative data in agricultural research. Topics include sampling and randomization, correlation and regression, methods of inference for means and proportions, and design of experiments. Course Equivalent: STAT 5375.

AGRI 5379. Advanced Equine Nutrition. 3 Hours.
This course is an advanced review of the equine digestive system regarding anatomy, physiology, digestive processes, nutrient requirements, feedstuffs, management, and health care. NOTE: Students who have taken EQSC 4379 may not take AGRI 5379.

AGRI 5386. Capital Management in Agricultural Business. 3 Hours.
Students are provided an in-depth understanding of capital marketing, capital budgeting, financial planning, and appraisal principles important in the field of agribusiness.

AGRI 5394. Applied Horticultural Science. 3 Hours.
Students explore the identification, selection, and use of plants to improve the human environment as well as evaluate problems and create solutions to environments where plants and human interact. In addition, students focus on the soil-water-plant relationship of ornamental plants.

AGRI 5397. Animal Diseases & Public Health. 3 Hours.
Students study diseases shared in nature between animals and man. Emphasis is placed on how these diseases exist in natural environments, modes of transmission, and methods of control and prevention. Students explore infectious agents and the clinical signs that they cause in both humans and animals. Note: Students who have taken ANSC 4398 may not take AGRI 5397.
Prerequisite: Graduate Standing.

AGRI 5398. Economics Of Agricultural Production. 3 Hours.
Students explore agricultural production principles applied to the use of resources; cost analyses of production enterprises; linear programming of enterprises for maximizing returns; elements of depreciation schedules; evaluation for income tax purposes.

AGRI 6099. Thesis. 1-3 Hours.
In addition to the preliminary study of the techniques of research, this course involves completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis. Variable Credit (3 hrs first semester; 1 hour subsequent semesters). Grade is either Credit or No Credit. Course Equivalents: AGRI 6399 .

AGRI 6140. Graduate Seminar. 1 Hour.
This course is designed to provide students a forum for presentation of their graduate project and to provide an opportunity for faculty to present seminars relative to contemporary issues in agriculture. The project is an agreement between student and his/her committee. Course cannot be repeated. Grade is either Credit or No Credit.
Prerequisite: AGRI 5375 or STAT 5360.

AGRI 6350. Techniques & Interpretation of Agricultural Research. 3 Hours.
A course designed to develop the competencies needed to interpret and utilize agricultural research. Topics will include: the philosophy of the scientific method, formats for agricultural research data, interpretation of data, and application of information to specific situations.
Prerequisite: STAT 5360.

AGRI 6398. Thesis. 3 Hours.
In addition to the preliminary study of the techniques of research, these courses involve completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis. Grade is either Credit or No Credit.

Agriculture Education (AGED)

AGED 5364. Advanced Problems in Agriculture Education. 3 Hours.
A directed individual investigation of advanced problems in Career and Technology Education.

AGED 5376. Personal Leadership & Organizational Dynamics. 3 Hours.
(SH Prior Course ID: AED 576); Concepts and practices in planning and presenting materials to agricultural groups. Includes leadership skills, concepts of community development, and dynamics of technological change.

AGED 5388. Secondary Agricultural Education Program Management. 3 Hours.
Students focus on developing and managing the youth leadership aspect of Agriculture, Food, and Natural Resources programs in public schools. Students examine leadership and career development events, agricultural education record book documentation system, Program of Activity development, financial management, student and chapter awards, community partnerships, program evaluation, and student management during extracurricular activities.

AGED 5393. Methods of Teaching Agricultural Education. 3 Hours.
Students study the professional competencies required for the teaching of agricultural education. Included is the development of curriculum and occupational education programs as well as evaluation of teaching techniques, procedures, and resource materials. Methods of teaching students with disabilities are discussed. Note: Students who have taken AGED 4364 may not take AGED 5393.
Prerequisite: Graduate Standing.

AGED 5394. Agricultural Education Learning Environments. 3 Hours.
Students examine classroom management and discipline approaches appropriate in secondary agricultural education (AGED) classrooms and laboratories. Proactive and preventative measures are discussed to ensure student safety and a successful learning environment. Note: Students who have taken AGED 4394 may not take AGED 5394.
Prerequisite: Graduate Standing.

Anatomy (ANAT)

ANAT 7801. Clinical Anatomy. 8 Hours.
Students explore integrated gross and microscopic human anatomy including a regional focus on embryological development. Laboratory cadaveric dissection, virtual microscopy, radiological imaging, and models are all utilized as learning tools. Students will apply knowledge of the anatomical sciences to understand clinical correlates.

Art (ARTS)

ARTS 5079. Independent Study. 1-3 Hours.
Students in this course conduct supervised exploration of a specialized interest or pursue enhanced skills. It is designed specifically for advanced students who are capable of independent research and/or creative activity. Variable Credit (1 to 3).
Prerequisite: Approval of instructor and department.

ARTS 5311. Studio Critique. 3 Hours.
Students explore and begin producing a body of work. Weekly group critiques allow students to develop their work while providing a forum for peer review and discussion of critical theory, as well as social, political, and aesthetic aspects of their practice.

ARTS 5312. Studio Seminar. 3 Hours.
Students focus on socially and community engaged art practices. Each semester, the course will focus on a topic related to current theories of contemporary art and social practices. Topics will rotate and vary from semester to semester. Group discussions and individual research on the semester topic will serve as the conceptual and ideological catalyst for the creative work produced in the seminar.

ARTS 5313. Teaching Seminar in Art. 3 Hours.
Students examine teaching pedagogy in higher education. Curriculum development, syllabi development, assessment, and educational objectives will be viewed with a focus on art education and visual culture. This is a required course to prepare students for graduate teaching assistantship opportunities in the Department of Art.

ARTS 5315. Professional & Social Practice. 3 Hours.
Students pursue professional artistic endeavors, including portfolio development and presentation, grant writing, and exhibitions. Emphasis is placed on developing proposals for projects and exhibitions that emphasize community engagement and participation. Students in the course will organize and promote public exhibition of their work.

ARTS 5381. Socially Engaged Art. 3 Hours.
Students consider art, its social contexts, and its engagement with social systems. Socially Engaged Art may incorporate the community, networks of people within a community, political and/or social activism, participation, relationships between people and/or organizations, and include transdisciplinary work that considers societal relations. It will consider the origins and history of socially engaged art as well as its contemporary manifestations.

ARTS 5385. Contemporary Art and Theory. 3 Hours.
Students examine art from late twentieth century onward. Particular focus is granted to ongoing work by significant artists and scholars. Class lectures and discussions alternate between chronological and thematic treatments of contemporary art, and also consider major theories and histories.

ARTS 6079. Special Topic. 1-3 Hours.
This course provides opportunities for special topic courses within the Department of Art. May be repeated for credit. Prerequisite: Instructor approval. Variable Credit (1 to 3).
Prerequisite: Instructor Approval .

ARTS 6311. Collaborative Studio. 3 Hours.
Students focus on the exploration and production of a body of work leading up to their thesis project. Students will develop and complete projects that require collaboration with other artists in the program, or with other disciplines, to expand their practices. Weekly group critiques will allow students to develop their work while providing a forum for peer review.
Prerequisite: ARTS 5312 and ARTS 5381.

ARTS 6312. Community Seminar. 3 Hours.
Students pursue the development of a body of creative work through partnerships with community organizations or experiences. Students develop projects that relate to community issues by working with community organizations or creating innovative community-based projects that result in public presentations or exhibitions.
Prerequisite: ARTS 5311 and ARTS 5381.

ARTS 6313. Studio Critique II. 3 Hours.
Students continue to develop their studio practice and refine art and social practice projects working towards their theses. Group and individual critiques will provide a forum for faculty feedback, peer review, and discussions of advanced critical theory, as well as social and political aspects of their practice.
Prerequisite: ARTS 5311.

ARTS 6381. Research Methods in Art. 3 Hours.
Students critically explore approaches and methodologies in studio art research. A variety of research perspectives are considered, with an emphasis on student-conducted research. Students investigate historical, theoretical, and technical aspects of research in an artistic context and develop practices of documenting, disclosing, and disseminating their research.
Prerequisite: ARTS 5381 and ARTS 5385.

ARTS 6385. Seminar in Art History. 3 Hours.
Students study and analyze different Art History topics each semester. Rotating topics focus on different eras and locations; students analyze those periods and incorporate them into their practices.
Prerequisite: ARTS 5385.

ARTS 6398. Thesis Project I. 3 Hours.
Students write a thesis proposal articulating their artistic practice and outlining plans for a thesis exhibition to be completed in ARTS 6399: Thesis Project II. The theoretical foundation of their project is emphasized, alongside the project's context within art history and the student's creative development. Students will complete a Catalog Project for publication in a catalog to accompany the exhibition completed in ARTS 6399.
Prerequisite: ARTS 6381 and Departmental Approval.

ARTS 6399. Thesis Project II. 3 Hours.
Students complete the thesis project developed in ARTS 6398 and exhibit a body of work in the thesis exhibition. The completed thesis describes the conceptual foundation of the student's artistic practice and its relation and significance to society and the community. The thesis exhibition is demonstrative of the written thesis.
Prerequisite: ARTS 6398.

Athletic Training (ATTR)

ATTR 5111. Lower Extremity Injuries Lab. 1 Hour.
Students apply practical skills in the areas of evaluation, diagnosis, care, and referral of lower-extremity musculoskeletal pathologies. Course content includes evaluation skills and clinical decision-making that allow for the development of a clinical diagnosis, appropriate referral strategy, and a plan of care for lower-extremity injuries and conditions. Co-requisite: ATTR 5311.
Prerequisite: ATTR 5310.

ATTR 5112. Upper Extremity Injuries Lab. 1 Hour.
Students apply practical skills in the areas of evaluation, diagnosis, care, and referral of upper-extremity orthopedic injuries. Course content includes evaluation skills and clinical decision-making that allows for the development of clinical diagnoses procedures including the assessment of various musculoskeletal conditions, the selection of appropriate referral strategies, and the development of plans of care for upper-extremity injuries and conditions. Co-requisite: ATTR 5312.
Prerequisite: ATTR 5310, ATTR 5311, and ATTR 5111.

ATTR 5115. Non-Orthopedic Pathologies Lab. 1 Hour.
Students apply practical skills and techniques required to assess, manage, and refer non-orthopedic pathologies that occur in active populations. Course content includes evaluation skills and clinical decision-making that allow for the development of clinical diagnoses procedures including the assessment of various non-orthopedic conditions, the selection of appropriate referral strategies, and the development of plans of care for the conditions that may occur in the cardiovascular, respiratory, endocrine, gastrointestinal, genitourinary, integumentary, and reproductive body systems. Co-requisite: ATTR 5315.
Prerequisite: ATTR 5300, ATTR 5310, and ATTR 5320.

ATTR 5121. Prehospital Emergency Medicine and Acute Care Lab. 1 Hour.
Students perform the skills necessary to function as both an EMT–Basic and a Certified Athletic Trainer (ATC). Students practice skills to provide care and transport for critical and emergent patients as part of an emergency medical team. Students will use specific systems that both EMTs and Athletic Trainers employ in the field. Upon completion of this course, students will be eligible to sit for the National Registry Certification for Emergency Medical Technician – Basic (NREMT-B).
Prerequisite: Graduate Standing.

ATTR 5130. Therapeutic Intervention I Lab. 1 Hour.
Students apply practical skills in the application of skills in the areas of therapeutic exercise and therapeutic medications used to treat impairments due to injury or illness. This laboratory includes instruction, practice, and evaluation of clinical skills related therapeutic interventions in the treatment of pain and deficiencies in movement, strength, endurance, speed, neuromuscular control, coordination, agility, cardiorespiratory fitness, and activity specific skills. Co-requisite: ATTR 5330.

ATTR 5131. Therapeutic Intervention II Lab. 1 Hour.
Students apply practical skills in the areas of therapeutic modalities and manual therapies used to treat impairments due to injury or illness. Students demonstrate skills related to cryotherapy, thermotherapy, electrical stimulations, ultrasound, diathermy, light therapy, low level laser, traction, intermittent compression, and manual therapies. Co-requisite: ATTR 5331.

ATTR 5140. Clinical Experiences in Athletic Training IV. 1 Hour.
Students demonstrate skill proficiency in practice settings under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, assessment of lower and upper extremity pathologies, assessment of head, face, spine and pelvis injuries, and integration of therapeutic interventions. This course prepares students for the level-two designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires a minimum of 200 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met. Course Equivalents: ATTR 5240
Prerequisite: Admission to the Athletic Training Program, ATTR 5450, ATTR 5314, KINE 5374, and HLTH 5378.

ATTR 5210. Clinical Experiences in Athletic Training I. 2 Hours.
Students demonstrate skill proficiency in a practice setting under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, and assessment of lower extremity pathologies. This course prepares students for the level-one designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires 200 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met.
Prerequisite: Admission to the Athletic Training Program, ATTR 5300, ATTR 5310, ATTR 5320.

ATTR 5220. Clinical Experiences in Athletic Training II. 2 Hours.
Students demonstrate skill proficiency in practice settings under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, assessment of lower and upper extremity pathologies, and integration of therapeutic modalities and medications. This course prepares students for the level-one designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires a minimum of 200 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met.
Prerequisite: Admission to the Athletic Training Program, ATTR 5210, ATTR 5311, ATTR 5111, ATTR 5330, and ATTR 5130.

ATTR 5230. Clinical Experiences in Athletic Training III. 2 Hours.
Students demonstrate skill proficiency in practice settings under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, assessment of lower and upper extremity pathologies, assessment of head and face injuries, and integration of therapeutic interventions. This course prepares students for the level-two designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Clinical Education Coordinator prior to beginning the required 250 hours of the clinical experience.
Prerequisite: Admission to the Athletic Training Program, ATTR 5220, ATTR 5331, ATTR 5131, and ATTR 5313.

ATTR 5300. Injury Prevention and Protective Strategies. 3 Hours.
Students examine athletic training through a public health lens and explore injury prevention and protection through data collection and implementation of evidence-based strategies. Course content includes strategies used in athletic training such as the application of protective equipment, taping, bracing, splinting, and casting.

ATTR 5310. Clinical Evaluation and Assessment Fundamentals. 3 Hours.
Students learn skills required for the effective palpation of anatomical structures, assessment of range of motion and strength, neurological screens, and functional assessment screens including qualitative postural and gait analysis. The skills, techniques, and processes taught in the course prepare students for successful completion of clinical examinations.

ATTR 5311. Lower Extremity Injuries. 3 Hours.
Students learn the skills and techniques required to conduct a patient evaluation, develop a clinical diagnosis, refer the patient to appropriate health care providers, and design a plan of care for patients with common lower-extremity injuries and conditions. Co-requisite: ATTR 5111.
Prerequisite: ATTR 5310.

ATTR 5312. Upper Extremity Injuries. 3 Hours.
Students participate in a comprehensive overview of common musculoskeletal injuries and conditions related to the anatomical upper-extremity including the shoulder, elbow, wrist, hand, and fingers. Course content includes the proper evaluative procedures and assessments of various pathologies, the development of clinical diagnoses, the appropriate referral of patients, and the formation of plans of care for common upper-extremity injuries and conditions. Co-requisite: ATTR 5112.
Prerequisite: ATTR 5310, ATTR 5311, and ATTR 5111.

ATTR 5313. Head and Facial Injuries in Sport. 3 Hours.
Students examine head and facial injuries and related pathologies experienced in sport and exercise contexts. Course content focuses on the impact of guiding laws, rules, and current scientific evidence that influence the assessment, care, and return to activity decisions for patients.
Prerequisite: ATTR 5300, ATTR 5310, and ATTR 5320.

ATTR 5314. Spine and Pelvis Injuries. 3 Hours.
Students develop the skills and techniques required to assess and manage injuries to the spine, thorax, abdomen, and pelvis. Students perform patient evaluations and interventions to care for the spine and pelvic injuries most often associated with athletic injuries.
Prerequisite: ATTR 5310, ATTR 5311, ATTR 5111, ATTR 5312, ATTR 5112, and ATTR 5313.

ATTR 5315. Non-Orthopedic Pathologies in Sport and Exercise. 3 Hours.
Students examine the practical skills and techniques required to conduct an evaluation of the condition, develop a clinical diagnosis, appropriately refer, and develop a plan of care for non-orthopedic conditions experienced in active populations. Course content includes the following body systems: cardiovascular, respiratory, endocrine, gastrointestinal, genitourinary, integumentary, and reproductive. Co-requisite: ATTR 5115.
Prerequisite: ATTR 5300, ATTR 5310, and ATTR 5320.

ATTR 5320. Acute and Emergency Care in Athletic Training. 3 Hours.
Students learn the practical skills and techniques required to provide immediate care and appropriately manage acute and emergency conditions. Course content focuses on acute and emergency conditions that arise in sport and exercise contexts.

ATTR 5321. Prehospital Emergency Medicine and Acute Care. 3 Hours.
Students didactically acquire knowledge and skills necessary to cognitively understand emergency situations and care for and transport critical and non-critical patients as part of an emergency medical team. Students learn how to apply care for emergency conditions such as severe bleeding, multi-systems trauma, heat- and cold-related illnesses, allergic reactions, musculoskeletal injuries, cardiorespiratory emergences, as well as a variety of conditions that may lead to sudden death. Upon completion of this course, students will be eligible to sit for the National Registry Certification for Emergency Medical Technician – Basic (NREMT-B).
Prerequisite: Graduate Standing.

ATTR 5330. Therapeutic Interventions I. 3 Hours.
This course includes the study of fundamental principles of therapeutic exercise, contemporary strength training and conditioning, along with pharmacological principles. Students acquire techniques and timing protocols associated with therapeutic interventions and are prepared to effectively implement, progress, and regress therapeutic exercises, during the patient healing and recovery phases, for pathologies that typically occur in active populations. Co-requisite: ATTR 5130.

ATTR 5331. Therapeutic Interventions II. 3 Hours.
Examines theories, principles, and clinical application of therapeutic modalities and manual therapies that are commonly utilized to treat pathologies in an active population. Students are prepared with the skills and theoretical knowledge required to determine appropriate interventions based on phases of healing, indications, contraindications, and precautions. A patient-centered approach is utilized to determine appropriate care plans. Co-requisite: ATTR 5131.

ATTR 5340. Administration in Athletic Training. 3 Hours.
Students investigate the organizational, professional, and management skills required to work in the athletic training profession. Course content includes risk management, budgeting, policy development, facility design, electronic medical records, medical billing, and management strategies.
Prerequisite: ATTR 5300, ATTR 5320, HLTH 5371, and HLTH 5378.

ATTR 5450. Immersive Clinical Experiences in Athletic Training. 4 Hours.
Students demonstrate skill proficiency in a practice setting under the supervision and guidance of a clinical preceptor. The practice-intensive clinical experience allows students to experience the totality of patient care provided by practicing Athletic Trainers. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires a minimum of 300 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met. Course Equivalents: ATTR 5350
Prerequisite: Admission to the Athletic Training Program, ATTR 5210, ATTR 5220, and ATTR 5230.

Bassoon (BSSN)

BSSN 5201. Individual Performances-Bassoon. 2 Hours.
The course consists of advanced individualized instruction on the bassoon. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Bilingual/Eng as Sec lang (BESL)

BESL 5302. Social and Cultural Language Influences On Learning. 3 Hours.
This course is an integration of concepts fundamental to meeting the needs of students with diverse backgrounds. This course looks at language in its social and cultural contexts. It provides strategies to address the needs of second language learners from varied linguistic backgrounds. It examines sociocultural factors in the language classroom, interpersonal relations, concepts, models, and strategies for pluralistic teaching.

BESL 5303. Teaching ESL: Oral and Written Language. 3 Hours.
This course emphasizes the nature of language; the structure of language, the nature of first and second language acquisition; possible areas of interference; student motivation; trends in effective teaching materials and procedures; observation, testing and evaluation techniques; and the significance of culture.

BESL 5304. Second Language Acquisition and Development. 3 Hours.
This course examines theories of second language acquisition as well as relationship between second language acquisition theory and language teaching. It compares and contrasts different theoretical perspectives of language, the learner, and the language learning process. It explores current research in the field of second language acquisition.

BESL 5311. Applied Linguistics in ESL/EFL Settings. 3 Hours.
This course examines the language subsystems of phonology, morphology, syntax, lexicon and pragmatics from a framework of ESL/EFL language teaching. It emphasizes fundamental language concepts and conventions of the English language and how these are viewed by second language learners.

BESL 5312. Second Language Literacy. 3 Hours.
This course focuses on literacy development from the perspective of the second language learner. It examines on theories related to second language reading and research on the relationship between first and second language literacy. The social contexts of second language reading and instructional practices for second language literacy are analyzed. Course Equivalents: READ 5312 .

BESL 5313. English as a Second/Foreign Language (ESL/EFL) Methodology. 3 Hours.
This course is an in-depth study of various approaches, methods and techniques used in the teaching of language components and language skills (reading, writing, listening and speaking) in English as a Second/Foreign Language (ESL/EFL) settings. The course provides practice in developing and implementing effective language lessons along with evaluating and selecting appropriate ESL/EFL teaching materials.

BESL 5314. Second Language Acquisition for Bilingual Diagnosticians. 3 Hours.
Students examine theories of second language acquisition as well as the relationship between second language acquisition theory and language teaching. They compare and contrast different theoretical perspectives of language, the learner, and the language learning process. They explore current research in the field of second language acquisition as it relates to individuals with special needs. English and Spanish are the languages of instruction.

BESL 5316. Computer Assisted Language Learning in English as a Second Language/English as a Foreign Language. 3 Hours.
This course is an in-depth study of the theoretical, empirical, and pedagogical issues regarding Computer Assisted Language Learning (CALL). Students will synthesize the research base in CALL, as well as analyze and develop practical applications for use in the teaching of language components (grammar, vocabulary, pronunciation) and language skills (reading, writing, listening and speaking) in English as a Second/Foreign Language (ESL/EFL) settings.

BESL 5317. Second Language Assessment. 3 Hours.
In this course, students will analyze the major concepts involved in second language assessment. Research-based methods will be used to design assessment systems to evaluate their students' learning. Students will develop conceptual linkages between assessment and teaching, analyze proficiency level assessments and apply formative assessments to improve learning outcomes.

BESL 5318. Sheltered Instruction in Prekindergarten-12. 3 Hours.
Students develop theoretical and practical knowledge of sheltered instruction methodologies and research-based practices for working with linguistically and culturally diverse students in PK-12 content area classes.

BESL 6088. Special Topics International Literacy. 1-3 Hours.
The topic(s) included will vary with academic program and semester offered. Course Equivalents: BESL 6320 .

BESL 6089. Independent Study in TESOL. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3).
Prerequisite: Consent of Department Chair.

BESL 6301. Multilingual Program Development in Content Areas. 3 Hours.
This course is designed to address basic teaching principles in the areas of science, mathematics, and social studies; the organization and structure of bilingual programs; guidelines for language usage; staffing, scheduling, and physical organization; and learning styles, teaching strategies and use of auxiliary personnel specific to the bilingual classroom.

BESL 6311. English for Specific Purposes. 3 Hours.
This course addresses fundamental aspects related to theory, research and practice in English for Specific Purposes (ESP), including English for Academic Purposes (EAP). It explores a learner-centered approach to ESP/EAP, and practical applications of the course design in the form of syllabi, materials, methodology and assessment for particular ESP professional needs.

BESL 6315. Action Research in Second Language Learning. 3 Hours.
This course engages graduate students in action research, a form of self-reflective systematic inquiry on their own practice with second language learners. Topics include discussion of ethical guidelines, data collection techniques, and action planning. Finally, students use their reflective practices and serve as change agents in educational communities.
Prerequisite: Departmental approval.

BESL 6320. Workshop In Education: Multilingual Education. 3 Hours.
The topic(s) included will vary with academic program and semester offered. Course Equivalents: BESL 6088 .

BESL 6325. Teaching Second Language Writing. 3 Hours.
In this course students will participate in an in-depth study of approaches, methods, and strategies used in the teaching of writing to English language learners. Students synthesize the research base, develop genre-based instruction, and implement strategies for second language writing.

BESL 6335. English as a Second/Foreign Language (ESL/EFL) Practicum. 3 Hours.
Students participate in an in-depth study of English as a Second/Foreign Language (ESL/EFL) instructional methods. Students observe, prepare, and present lessons in ESL/EFL under the guidance of the practicum instructor. (45 hours of field experience in authentic settings required.)
Prerequisite: BESL 5313.

BESL 6336. Teaching ESL and STEM to English Learners. 3 Hours.
Students examine critical issues and explore topics in the area of STEM education for learners of English as a Second Language (ESL). Students analyze the nature of STEM-based texts from an applied linguistic perspective. Students investigate the theoretical and methodological foundation of the critical pedagogical and research-based approaches used to teach ESL and STEM content areas to English Learners (ELs) using developmentally appropriate and culturally responsive pedagogy. Students develop knowledge and skills to engage ELs in STEM content while developing ELs' listening, speaking, reading, and writing skills in both ESL and native language.
Prerequisite: Graduate Standing.

Biology (BIOL)

BIOL 5095. Independent Graduate Study in Biology. 1-4 Hours.
This course is designed to provide an avenue for selected graduate students to engage in independent studies. Registration is on an individual basis but is limited to students in residence. A topic of study is selected and approved by the Biology faculty. Variable Credit (1-3).
Prerequisite: Graduate standing in Biology and consent of department chair.

BIOL 5300. Professional Aspects of Scientists. 3 Hours.
This is an essential course on scientific professionalism for the beginning M.S. student. Students are provided with an introduction to the professional and ethical responsibilities of scientists. Students discuss philosophical and controversial issues in academia and science, as well as political issues that may influence the process and practice of science. Most importantly, this course encourages and helps students to develop skills needed for presenting their research to fellow scientists through the processes of publishing, giving conference presentations, writing grant proposals, and becoming active in the scientific community. Required of all graduate students in Biology. Course Equivalents: BIOL 5200
Prerequisite: Graduate standing.

BIOL 5301. Seminar in Biology Research I. 3 Hours.
Students examine research strategies used by professional biologists, including experimental design and interpretation of results. Additionally, students develop skills in reviewing and analyzing relevant scientific literature as part of their preparation for planning, executing, and completing an original research project.

BIOL 5302. Seminar in Biology Research II. 3 Hours.
Students will develop skills in hypothesis development, research design, and scientific communication through the production of a research prospectus. This is done in preparation for planning, executing and completing an original research project.
Prerequisite: BIOL 5301.

BIOL 5305. Medical/Criminal Entomology. 3 Hours.
Students discuss the methods and materials necessary for use of insects as forensic evidence in legal investigation. Laboratory included.
Prerequisite: Introductory entomology and graduate standing.

BIOL 5310. Classical and Natural History of Plants. 3 Hours.
Students are presented the classification and natural history of major groups of nonvascular and vascular plants. Emphasis is placed on morphological recognition, ecological and physiological differences and economic importance of major taxa. Laboratory included.
Prerequisite: Introductory botany course and graduate standing.

BIOL 5320. Statistical Design in Biology. 3 Hours.
Students engage in a survey of various experimental designs and associated statistical analyses common in biology. Using primarily the general linear model,students explore in detail appropriate designs for the following statistical applications: independent t-test, Analysis of Variance, block, multivariate, paired t-test, repeated measures, correlation, regression, Analysis of Covariance, ordination, clustering, randomization, and goodness of fit. The class consist of lecture, practical exercises in analyzing data (using SAS, SPSS, or another comparable analytical program), and class discussion of experimental designs published in the primary literature. This course is meant to be a follow-up to Biostatistics (BIOL4374) in that the basic statistical theory are not presented. Rather, this course focuses on the practical use of experimental design for analyzing and interpretation data. Grading in this class is be based on exams and individual practical exercises.
Prerequisite: BIOL 4374 (or equivalent), or permission of instructor.

BIOL 5330. Model Organisms. 3 Hours.
Students investigate the ways in which model organisms are employed and used in modern biological research. Primary topics may include genetics, genomics, physiology, and development of model organisms. Experimental design and application of animal models in research are also studied.

BIOL 5350. Plant Evolutionary Biology. 3 Hours.
The developmental program of many plants is sufficiently plastic to allow a suite of evolutionary scenarios not encountered in other major lineages. Mechanisms such as hybridization, polyploidy, somaclonal variation, chromosomal rearrangement, and the evolution of diverse and unique breeding systems have allowed plants to thrive in every terrestrial biome. Additionally, many of these mechanisms allow for rapid evolution that can be documented over the span of a few generations. Students study the myriad ways in which plants have diversified from their endosymbiotic ancestors as well as the hallmarks of evolution that characterize major plant lineages.
Prerequisite: Graduate standing in the Department of Biological Sciences and an introductory course in botany.

BIOL 5360. Principles Of Systematics. 3 Hours.
Systematics is the study of biological diversity, encompassing the evolutionary origins of this diversity and the construction of classification systems that recognize evolutionary lineages. Students study the history and philosophy of classification as a whole, from the development of nomenclature to modern techniques of molecular phylogenetics. Topics may include species concepts, nomenclature, interpreting and inferring phylogenies from many kinds of data, the use of DNA databases, DNA barcoding and alternatives to the Linnaean system of nomenclature.
Prerequisite: Graduate standing and an introductory course in statistics.

BIOL 5361. Evolutionary Biology. 3 Hours.
Evolution is the core theory of modern biology. Students investigate the major principles of evolutionary biology, from the history of evolutionary thought through theory and current concepts of evolution. Emphasis will be placed on molecular and cellular evolution, mechanisms of evolution including natural selection, gene flow, founder effect, and speciation. Note: Students who have taken BIOL 4361 may not take BIOL 5361.
Prerequisite: Graduate Standing.

BIOL 5363. Genomics and Bioinformatics. 3 Hours.
Students analyze advances in genomics and bioinformatics and apply computational and bioinformatic approaches to understand the genome structure, function, and evolution. Topics may include DNA sequencing, sequence assembly, gene and protein sequence alignments, whole genome comparison, annotation of DNA sequences, promoter analysis, transcriptomics, proteomics, and phylogenetic analysis. Note: Students who have taken BIOL 4363 may not take BIOL 5363.
Prerequisite: Graduate Standing.

BIOL 5364. Cell Structure And Physiology. 3 Hours.
Students study of signal transduction pathways in the cell, with emphasis on those relevant to human physiology and disease.
Prerequisite: Cell Biology and Organic Chemistry.

BIOL 5365. Genetic Analysis of Human Disease. 3 Hours.
Students analyze the transmission and molecular basis of human genetic traits and genetic diseases. Various simple and complex genetic disorders are examined using pedigree, molecular, and biochemical analyses. Novel approaches to the diagnosis and treatment of human genetic disorders are discussed. Topics such as the ethical, legal, social issues and concerns of genetic testing and discrimination, germ line therapy, genetic enhancement, and human cloning are examined. Note: Students who have taken BIOL 4360 may not take BIOL 5365.
Prerequisite: Graduate Standing.

BIOL 5368. Advanced Invertebrate Zoology. 3 Hours.
Invertebrates are the dominant form of life on earth, comprising greater than 75% of all described species. Students are briefly introduced to the phylum/class level characteristics of the major groups of invertebrate animals. The majority of the course deals with the evolutionary history and phylogeny of invertebrates, invertebrate ecology, and the myriad solutions invertebrates have evolved to deal with the common problems of reproduction, feeding, osmoregulation, respiration, locomotion and developmental patterns.
Prerequisite: 12 hours advanced biology, invertebrate zoology recommended.

BIOL 5371. Advanced Evolution. 3 Hours.
Students examine the modern concepts of the evolution of organisms. Extended reading and classroom discussion supplement the lecture treatment. Three one-hour lectures a week are scheduled.
Prerequisite: Introductory genetics.

BIOL 5374. Biostatistics. 3 Hours.
Students apply statistical methods to biological problems. Topics may include descriptive statistics, probability distributions, estimation, hypothesis testing, correlation and regression, and analysis of variance. Note: Students who have taken BIOL 4374 may not take BIOL 5374.
Prerequisite: Graduate Standing.

BIOL 5375. Bacterial Physiology. 3 Hours.
Students study bacterial metabolism that includes fermentation, anaerobic respiration, bacterial photosynthesis and nitrogen fixation. Students also discuss how bacteria sense their environment and adjust their metabolism accordingly. Three hours of lecture per week.
Prerequisite: Microbiology, Genetics, and Organic Chemistry II or General Physiology.

BIOL 5378. Virology. 3 Hours.
Students study viruses that infect plants, animals, and bacteria. Areas considered may include chemical and structural properties of viruses, virus-host relations, and infection and growth phenomena, including interference and regulation. In addition, the roles of viruses are included as agents of disease and malignancy, and as gene vectors in natural settings, but also as tools in biotechnology and gene therapy. Three hours of lecture per week.
Prerequisite: Microbiology, Genetics, and Organic Chemistry.

BIOL 5380. Advanced Ecology. 3 Hours.
Students engage in an advanced theoretical and practical study of biotic and abiotic ecosystem interactions encompassing the physiology of individuals, growth of populations, including social and species interactions within populations, analysis of population composition and change, the distribution of communities, and the functioning of ecosystems.
Prerequisite: General Chemistry I and II, General Ecology.

BIOL 5381. Ecological Computer Modeling. 3 Hours.
Students are provided an introduction to the development and application of computer models in ecology and population biology. Principles of modeling, programming concepts, specific model dynamics, and prepackaged computer models are explored. Two hours of lecture and two hours of laboratory per week.
Prerequisite: General Ecology.

BIOL 5382. Ichthyology. 3 Hours.
Students are introduced to general concepts in biology, taxonomy, systematics, evolution, zoogeography and ecology of fishes. Students learn the characteristics and identifying features for most of the dominant fish families on Earth. Moreover, students leave with a working knowledge on the taxonomy and nomenclature of the marine and freshwater fishes of Texas as well as the skills necessary to identify fishes from across the globe. This class includes a 2-hour weekly laboratory and field work.
Prerequisite: Introductory biology plus 12 hours advanced biology.

BIOL 5383. Herpetology. 3 Hours.
Students are introduced to the biology of amphibians and reptiles and one of the most important evolutionary events in natural history: the rise and diversification of terrestrial vertebrates. A comprehensive introduction addresses the taxonomy, systematics, evolution, anatomy, physiology, ecology, distribution, and natural history of these unique vertebrates. Upon completion of this course, students understand and appreciate why amphibians and reptiles serve as excellent biological models in research, and are familiar with the major research questions and programs in herpetology. A laboratory and field component introduce students to a variety of sampling and collecting techniques. Common museum practices for specimen preservation and documentation are also addressed. Although regional species receive the most emphasis, this course addresses the biology of all amphibians and reptiles. Two-hour laboratory plus field work.
Prerequisite: Introductory biology plus 12 hours advanced biology.

BIOL 5384. Ornithology. 3 Hours.
Students study the classification evolution, anatomy, physiology, ecology, behavior and conservation of birds. Laboratories may include general anatomy, taxonomy, identification and field techniques used in the study of behavior and migration. Laboratories may include independent research projects related to topics discussed in this course. Two-hour laboratory plus field work.
Prerequisite: Introductory biology plus 12 hours advanced biology.

BIOL 5385. Mammalogy. 3 Hours.
Students study the taxonomy, systematics, anatomy, ecology, distribution, and life history of mammals. Laboratories may include general taxonomy, identification, and field techniques. Two-hour laboratory plus field work.
Prerequisite: Introductory biology plus 12 hours advanced biology.

BIOL 5390. Limnology. 3 Hours.
Students examine physical, chemical, and biological characteristics of freshwater stream and lake ecosystems. Limnological techniques are stressed with special emphasis on physiochemical conditions of freshwater environments and their effects on aquatic life. Plankton analysis, a study of bottom fauna, lake and stream mapping and evaluation of aquatic productivity are included. Two-hour laboratory plus field work.
Prerequisite: 8 hours college chemistry plus 12 hours advanced biology.

BIOL 5391. Advanced Genetics. 3 Hours.
Students engage in an advanced study of the principles of heredity and the nature and function of genes.
Prerequisite: Introductory genetics with grade of C or better and organic chemistry.

BIOL 5394. Special Topics In Graduate Biology. 3 Hours.
This course of Graduate Faculty-led study is designed to provide exposure of graduate students to new biological topics and concepts in a course setting, prior to that course's formal Department, College, and University course adoption. This course may be repeated for different Advanced Special Topics (different courses).
Prerequisite: Graduate standing in the Department of Biological Sciences or consent of the instructor.

BIOL 5410. General Entomology. 4 Hours.
Students examine insect morphology, taxonomy, development, and life histories. Collection techniques and the use of keys to identify insects are stressed. Note: Students who have taken BIOL 4410 may not take BIOL 5410. Graduate Standing.
Prerequisite: Graduate Standing.

BIOL 5480. Comparative Animal Physiology. 4 Hours.
Students study of the physiological adaptive mechanisms and the comparison of adaptive strategies across vertebrate taxa. Emphasis is directed toward homeostatic mechanisms of water, energy and electrolyte balance, and metabolism. A two-hour laboratory to emphasize investigative skills employing modern laboratory techniques is included. Independent original research project required.
Prerequisite: Organic chemistry, general physiology, or instructor's consent.

BIOL 6099. Thesis. 1-3 Hours.
Students complete and successfully defend their Thesis. Variable credit (1-3.) Course Equivalents: BIOL 6399 .

BIOL 6398. Thesis. 3 Hours.
Students complete and successfully defend their Thesis.

Business Administration (BUAD)

BUAD 5080. Independent Study. 1-3 Hours.
This course is designed for the directed study of individual students who wish for intensive supervision in some vital aspect of Business Administration. Variable Credit (1 to 3). . Course Equivalents: BUAD 5380
Prerequisite: BUAD 5310 and Approval of Department Chair and Graduate Coordinator.

BUAD 5085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide graduate students exposure to new General Business topics and concepts in a course setting. Variable Credit (1 to 3).

BUAD 5310. Managerial Communication. 3 Hours.
This course is designed to expand students' understanding of management and corporate communications and enhance managerial writing and speaking skills. Research projects and case studies prepare students to conduct business research and to report results.

BUAD 5348. Entrepreneurship: Theory and Practice. 3 Hours.
Students engage in an intensive examination of the theories of entrepreneurship, innovation, and intellectual entrepreneurship. Students research the major steps of starting a business, including developing their own Personal Entrepreneurship Plan. An emphasis is placed on converting intellectual capital into financial capital. Topics for extensive research may include self-assessment, opportunity screening, developing a marketing system, growth strategies, and financial strategies.

BUAD 5355. Managerial Law. 3 Hours.
Students are prepared, as managers, to be cognizant of the legal implications of their decisions regardless of their specific area of responsibility with a focus on researching legal issues and developing strategies from the standpoint of management - from supervisory level to Board of Directors. Emphasis is placed on research strategies that executives can use to generate pragmatic legal strategies to minimize legal expenses and legal liabilities. The research strategies are oriented toward sources that can quickly be analyzed and implemented rather than traditional legal research for law firms. Assignments result in real world business research memos.

Business Analysis (BANA)

BANA 5080. Independent Study. 1-3 Hours.
A directed study for individual students who wish intensive work in a special topic area of business analysis. Variable credit (1-3). Course Equivalents: BANA 5380
Prerequisite: Approval of Department Chair and Graduate Coordinator.

BANA 5300. Quantitative Tools For Business. 3 Hours.
An introduction to a variety of quantitative tools used in the business sector. Emphasis is placed on statistical analyses and operations. In this course, students learn descriptive statistics, normal distribution theory, central limit theorem, estimation, hypothesis testing, and may also include linear programming, and forecasting. This course does not apply to the 36-hour graduate credit hour requirement of the MBA degree program.

BANA 5368. Techniques Of Statistical Analysis. 3 Hours.
An integration of the concepts and application of statistical and quantitative techniques currently used in business decision making. Readings in the current literature related to statistical inference, ANOVA, correlation, simple linear regression, multiple regression, questionnaire construction and analysis will be covered.

Career and Technology (CATM)

CATM 5364. Advanced Problems in Career & Technology Education. 3 Hours.
Designed to provide graduate students with the opportunity to gain specialized work-based experiences focused on solving problems in career and technology education.

Chemistry (CHEM)

CHEM 5001. Independent Study in Chemistry. 1-3 Hours.
This course is intended to provide an avenue for selected graduate students to engage in independent studies. Registration is on an individual basis and is restricted to students in residence. Variable Credit (1-3).
Prerequisite: Approval of department chair.

CHEM 5100. Chemical Literature & Seminar. 1 Hour.
Students will participate in the departmental seminar program. This participation will require the preparation and presentation of current research material in a format acceptable to the American Chemical Society.

CHEM 5361. Physical Organic Chemistry. 3 Hours.
This course consists of a study of the effect of structure upon reactivity of organic compounds. The qualitative and quantitative relationship of structure to acidity and basicity in organic chemistry is developed. In addition, reactive intermediates (carbocations, carbanions and free radicals) are studied.
Prerequisite: CHEM 2325, CHEM 2125.

CHEM 5362. Organic Reaction Mechanisms. 3 Hours.
Current models for mechanisms of organic reactions are discussed and applied. The mechanisms and applications of synthetically important reactions are also surveyed. Literature searching for less often utilized but historically important transformations are integral to the course. The methods of determining reaction mechanisms are surveyed along with applications to individual reactions.
Prerequisite: CHEM 2325, CHEM 2125.

CHEM 5367. Chemical Nano Sensing. 3 Hours.
Students learn to set up a conceptual and empirical framework for designing, validating, and using calibrated measurements of chemical abundance within the context of chemical nano sensing. Students employ this framework to examine instruments used to study, and sensors designed to make advantageous use of, nanoscale phenomena in diverse chemical sensing settings.

CHEM 5368. Analytical Spectroscopy. 3 Hours.
Theory and application of selected areas of spectroscopy commonly used in qualitative and quantitative analysis are covered. Topics include atomic and molecular spectroscopy, mass spectrometry, laser analytical methods, fluorescence, phosphorescence, and chemiluminescence and their application to environmental, atmospheric, and bioanalytical problems.
Prerequisite: CHEM 4440.

CHEM 5372. Advanced Biochemistry I. 3 Hours.
The chemical structure and the biological functions and controls of proteins are reviewed. Proteins to be considered include enzymes, transport proteins and structural proteins. Protein biosynthesis and recombinant DNA technology are also discussed.

CHEM 5373. Drug and Toxin Biochemistry. 3 Hours.
Students examines biotransformations of drugs/toxins, mechanisms of drug interactions with biological systems, and selective toxicity. Students gain insight into the design of therapeutic agents and the destruction of harmful toxins/bacterial invaders in living systems. Attention is also given to how molecular structure is related to solubility and permeability and how to design systems for drug delivery within the human body.

CHEM 5374. Chemistry of Coordination Compounds. 3 Hours.
The chemistry of compounds containing metal ions is discussed. Emphasis in placed on the complexes of transition metals. The electronic configurations of these ions in various bonding environments are considered in interpreting their chemical and physical properties.
Prerequisite: CHEM 4367 and CHEM 4448.

CHEM 5375. Organometallic Chemistry. 3 Hours.
Students examine organometallic chemistry through a detailed presentation of structure and bonding. In addition, students focus on these principles with in-depth discussions of organometallic reaction mechanisms, advances in catalysis, carbene complexes. metathesis reactions, application to organic synthesis, and cluster compounds.
Prerequisite: Graduate Standing.

CHEM 5381. Advanced Physical and Chemical Thermodynamics. 3 Hours.
Principles are stressed including the three laws of thermodynamics, thermochemistry and statistical thermodynamics. Applications of the principles to gases, solution, mixtures, solids and interfaces are given.
Prerequisite: CHEM 4448.

CHEM 5382. Symmetry and Spectroscopy. 3 Hours.
Quantum theory and symmetry are studied in detail and applied to the interpretation and prediction of spectroscopic data. Infrared, Raman, and electronic spectroscopic methods are examined in depth.
Prerequisite: Graduate standing and CHEM 4448 or departmental approval.

CHEM 5385. Selected Topics in Advanced Chemistry. 3 Hours.
This course is adaptable to the needs and interests of the individual graduate student majoring in Chemistry. Modern developments in specific subdivisions of the field of chemistry are considered. It may be repeated for credit, provided the repetition is not in the same subdivisional field. The subdivisional fields offered are: analytical, biochemistry, environmental, inorganic, organic, and physical chemistry.
Prerequisite: Graduate standing in Chemistry.

CHEM 6099. Thesis. 1-3 Hours.
Students complete and successfully defend their Thesis. Variable Credit (1 to 3). Course Equivalents: CHEM 6399 .

CHEM 6398. Graduate Research in Chemistry. 3 Hours.
Students carry out research under the direction of a faculty member.

Clarinet (CLAR)

CLAR 5201. Individual Performances - Clarinet. 2 Hours.
The course consists of advanced individualized instruction on the clarinet. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Clinical (CLIN)

CLIN 7010. Elective Clerkship. 1-4 Hours.
This course is a clinical clerkship providing the student with the opportunity to gain experience in any specialty with approval. Students are required to do one 4-weeks block in their third year and seven 4-week blocks in their fourth year. The clinical clerkships is accomplished at the assigned facility in the third year and an affiliated facility in fourth year. The student is expected to learn the diagnosis and treatment of patients appropriate for the selected specialty, including interprofessional team based care, outpatient care, hospital care, surgical care, post hospital care and office care, as appropriate for the specialty. Credits: (1-4). Course Equivalents: CLIN 7410
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Step 1.

CLIN 7201. Wellness for Healthcare Professionals. 2 Hours.
Students examine wellness in relation to Healthcare. This clerkship is accomplished online with weekly video meetings with faculty. The student is expected to learn methods to improve and maintain physical, mental, spiritual, financial, and institutional wellness for themselves, their patients and their teams.

CLIN 7214. Osteopathic Manipulative Medicine Clerkship 2 Week. 2 Hours.
Students gain advanced skills in osteopathic manipulative medicine through application in patient care activities, didactics, and teaching.

CLIN 7271. Clinical Hematology. 2 Hours.
This course is a 2-week elective clerkship providing the student with the opportunity to gain experience in clinical hematology. The clinical experience will emphasize the diagnosis and management of various hematologic disorders. Participating students will have the opportunity to reinforce clinical skills which include completing an accurate patient history and physical exam. They will also gain understanding on the complex decision making required in caring for patients with hematologic disorders.

CLIN 7401. General Surgery Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in General Surgery. Students are assigned to a hospital for their 3rd year core rotations, and this clinical clerkship is accomplished at the assigned facility. The student is expected to learn the diagnosis and treatment of surgical patients, including pre-operative evaluation, intra-operative and post-operative care, post hospital care, interprofessional team care and office care. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, Passing grade on COMLEX Level 1.

CLIN 7402. Adult Inpatient Medicine Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in Adult Inpatient Medicine. Students complete the four week block in each of the third an fourth years and are assigned to a hospital for their third year core rotations, and this courses is accomplished at the assigned facility. The student is expected to learn the diagnosis and treatment of adult patients on the inpatient medicine service, including admission criteria, interprofessional team based care, consultations, bedside diagnosis and management, pre-operative evaluation, post-operative medical management, discharge criteria and procedures and post hospital care. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

CLIN 7403. Emergency Medicine Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in Emergency Medicine. Students are assigned to a hospital for their 3rd year core rotations, and this clinical clerkship is accomplished at the assigned facility. The student is expected to learn the diagnosis and treatment of pediatrics and adult patients upon presentation to the emergency department including admission, discharge and transfer criteria, interprofessional team based care, consultations, and bedside diagnosis and management to include trauma care and acute cardiac and respiratory care. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

CLIN 7404. Psychiatry Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in psychiatry and mental health. Students are assigned to a hospital for their third year core rotations and this clinical clerkship will be accomplished as part of the core rotations, but may or may not be at the assigned facility, depending on services provided. The student is expected to learn the diagnosis and treatment of patients in a behavioral health setting. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

CLIN 7405. Family Medicine Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in Family Medicine. Students are assigned to a hospital for their third year core rotations, and this clinical clerkship is accomplished as part of the core rotations, but may occur in the office or hospital setting, or a combination, depending on services provided by the attending physician. The student is expected to learn the diagnosis and treatment of patients in the family medicine office setting and may follow the family physician to the other sites of care based on their practice. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

CLIN 7406. Pediatrics Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in the care of children. Students are assigned to a hospital for their third year core rotations, and this clinical clerkship is accomplished as part of the core rotations, but may occur in the office or hospital setting, or a combination, depending on services provided by the attending physician. The student is expected to learn the diagnosis and treatment of children and may follow the physician to the various sites of care based on their practice. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

CLIN 7407. Ob/Gyn Clerkship. 4 Hours.
Students complete a four week block in each of the third and fourth years. It provides the student with the opportunity to gain experience in the care of women. Students are assigned to a hospital for their third year core rotations, and the third year block is accomplished as part of the core rotations and may include office in addition to hospital practice, depending on structure of the rotation and services provided by the attending physician. The fourth year block may address aspects of women's health that do not include obstetrics and/or gynecology. The student is expected to gain experience in prenatal care, labor and delivery, gynecology and breast health, and the unique aspects of the care of women in areas such as cardiovascular health, osteoporosis, and breast cancer. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

CLIN 7408. Rural & Underserved Medicine Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in the care of rural and underserved populations in a variety of settings. Students are assigned to a hospital for their third year core rotations, and this clinical clerkship is accomplished outside of the main assigned hospital. Aspects of this rotation may occur in a rural or critical access hospital, a nursing home, a rural clinic or a community health center in a rural or urban setting. The student is expected to experience the social and diagnostic challenges associated with caring for populations with limited access to health services due to geography, insurance status and/or health access as well as the satisfaction of making a difference in health disparities. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

CLIN 7409. Adult Inpatient Med-II. 4 Hours.
This 3rd year clinical clerkship continues the experience from CLIN 7402: Adult Inpatient Med Clerkship-I, where the student gains experience inAdult Inpatient Medicine. Students will be assigned to a hospital and are expected to learn the specifics of diagnosis and treatment of adult patients, including admission criteria, use of consultation services, bedside diagnosis, pre- and post-operative care, discharge criteria, use of medical procedures, and post-hospital care. This 4-week experience requires students to pass an Internal Medicine assessment from the NationalBoard of Osteopathic Medical Examiners to complete the course.
Prerequisite: CLIN 7402.

CLIN 7411. Womens Health and Wellness. 4 Hours.
This course consists of a 4-week block in the fourth year after completion of the CLIN 7407 - Obstetrics and Gynecology Clerkship. Students will be assigned to an inpatient, outpatient, or mixed clinical experience. The 4th year rotation will focus on aspects of women's health that do not include obstetrics or gynecology. Students gain experience in unique aspects of women's health, which may include prenatal care, gynecology, cardiovascular health, osteoporosis, and breast cancer. Credit: 4
Prerequisite: CLIN 7407 - Obstetrics and Gynecology.

CLIN 7414. Medicine Selective Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to select an area of medicine from a selected group of rotations in medicine. This rotation must be completed within the assigned facility in year three and an affiliated facility in year four. The list of choices for this rotation are: General Internal Medicine, Pediatrics, Family Medicine, Geriatrics, Emergency Medicine, Hospitalist Medicine, Intensive Care, Pulmonology, Cardiology, Gastroenterology, Neurology, Adolescent Medicine, Rural Health, Primary Care Sports Medicine, Public Health, Alcohol and Substance abuse, Adult and Child and Adolescent Psychiatry, Neonatology, Pediatric ICU, and subspecialty pediatrics. Credits: 4.
Prerequisite: Successful completion of all coursework in years 1 & 2, Passing grade on COMLEX 1.

CLIN 7415. Surgery Selective Clerkship. 4 Hours.
This course provides the student with experience in subspecialty surgery. Students are required to take a 4 week Surgery Selective in each of their third and fourth years, and this clinical clerkship is accomplished at the assigned facility in the third year and an affiliated facility in the fourth year. The student is expected to learn the diagnosis and treatment of surgical patients appropriate for the selected specialty, including pre-operative evaluation, intra-operative and post operative care, post hospital care and office care, as appropriate. Credits: 4.
Prerequisite: Successful completion of all coursework in years one and two, successful completion of General Surgery rotation, Passing grade on COMLEX Step 1.

CLIN 7416. Osteopathic Manipulative Medicine Clerkship 4 Week. 4 Hours.
Students gain advanced skills in osteopathic manipulative medicine through application in patient care activities, didactics, teaching, and research.

CLIN 7451. Academic Medicine. 4 Hours.
This course is an elective clerkship providing the student with the opportunity to gain experience in Academic Medicine. This is a 4-week rotation. This clerkship is accomplished at SHSU-COM or online. The student is expected to analyze and practice the fundamentals of academic medicine as outlined in the syllabus.

CLIN 7452. Leadership in Medicine. 4 Hours.
Students will gain experience in leadership in medicine. Students will analyze leadership theory and practice leadership skills specific to medicine, medical education, and public health. The course will end with the students outlining their personal and professional missions and creating a plan to develop leadership skills throughout their careers.

CLIN 7453. Introduction to Spanish for Medical Students. 4 Hours.
This course is a 4-week elective providing the student with the opportunity to gain experience in Spanish for Medical Professionals. This elective is offered online. Students apply medical terms, Spanish language foundations, and gain Hispanic cultural knowledge. This rotation integrates medical topics with general Spanish language and uses research validated pedagogy to facilitate learning.

CLIN 7457. Online Radiology. 4 Hours.
This independent study elective utilizes a significant amount of online module learning to help students develop a basic understanding of the principles and applications of medical imaging. The course focuses on a patient-centered approach to imaging and helps students build clinical problem-solving skills by utilizing the American College of Radiology Appropriateness criteria.

CLIN 7460. Research in Medicine. 4 Hours.
This course is a 4-week elective block providing the student with the opportunity to enhance research knowledge in their chosen area of study. This elective is accomplished through the COM in coordination with faculty. Participating students will enforce previously acquired knowledge and skill, gather and analyze data, and formulate a written report and disseminate their findings.

CLIN 7461. Culinary Medicine. 4 Hours.
This course is an elective clerkship providing the student with the opportunity to gain experience in Culinary Medicine. The working goals are to provide medical students with a basic understanding of the culinary skills required to achieve a patient's dietary and/or nutritional goals. The student is expected to learn how to use food as medicine and decrease it as a risk factor for disease. The course is a hybrid course that will be offered in person and online.

CLIN 7470. Sports Medicine Elective Clerkship. 4 Hours.
This clinical clerkship provides the student with the opportunity to gain experience in Sports Medicine and equip the medical student with a foundation in Sports Medicine to support their maturing clinical judgment and knowledge. This clinical clerkship is accomplished as 4-week elective. The student is expected to learn basic exam findings, diagnoses, and treatment plans of patients in the outpatient setting and may accompany the Sports Medicine physician to the other sites of care based on their practice.

CLIN 7471. Four Week Clinical Hematology Elective. 4 Hours.
This course is a 4-week elective clerkship providing the student with the opportunity to gain experience in clinical hematology. The clinical experience will emphasize the diagnosis and management of various hematologic disorders. Participating students will have the opportunity to reinforce clinical skills which include complete and accurate patient history and physical exam. They will also gain understanding on the complex decision making required in caring for patients with hematologic disorders.

Clinical Medicine (CMED)

CMED 7201. Clinical Medicine 1. 2 Hours.
The student explores foundational skills and knowledge pertinent to becoming a physician. Topics may include ethics, professionalism, self-care, patient centered, and physician centered history taking. A basic physical examination is learned as well. The pre-clinical student have an opportunity to interact with other health care professions students to learn the importance of teamwork and inter-professional collaboration. OMM1 is paired and integrated alongside this course. Course Equivalents: CMED 7501 .

CMED 7304. Clinical Medicine 4. 3 Hours.
The student integrates knowledge and techniques already attained to develop a holistic approach to medicine. Major topics may include cultural diversity, population health, health outcomes, and EBM (evidence based medicine). Simulation and clinical skills focus on the life cycle (pediatrics, women's health, and geriatrics). More advanced simulations and inter-professional events occur. Application of medical decision-making and the performance and documentation of a full history and physical continue to be a focus and requirement for attainment of these skills. This course shares focus and integrated activities with OMM4.

CMED 7402. Clinical Medicine 2. 4 Hours.
The student continues the foundational work of becoming a physician with topics that include ethics, professionalism, and self-care with a particular focus given to the mind, behavioral health, and neurologic system. The student physician begins applying medical decision-making, working in collaborative care teams, and the role of the physician in society through simulation and standardized patient exercises. Use of physical examination to identify abnormal cardiopulmonary findings is emphasized. OMM2 shares an integrated focus.

CMED 7403. Clinical Medicine 3. 4 Hours.
The student develops more advanced skills with further concentration on ethics, professionalism, and self-care with a particular focus on EBM (evidence based medicine) and population health. The abdomen and pelvis physical examinations are learned in detail. A complete new patient history and physical can now be completed and documented. Simulations continue to include collaborative events with other professional students and expands experience in common physician skills, such as suturing and resuscitation tube placements. This course is taught concurrently and aligns with OMM3.

Communication Studies (COMS)

COMS 5331. Communication Studies Methods and Research. 3 Hours.
Students examine graduate level research methods, including quantitative and qualitative approaches. Topics may include data collection, analysis, and interpretation. Students develop individual research proposals.

COMS 5332. Statistical Methods For Communication. 3 Hours.
Students focus on various statistical techniques used in communication research. Topics may include univariate and bivariate techniques, hypothesis testing for single and multiple samples, as well as methods used to investigate relationships between two or more variables such as ANOVA, ANCOVA, and multiple regression analysis. Students participate in research activities using statistical techniques.

COMS 5333. Qualitative Communication Research. 3 Hours.
Students examine various qualitative communication research methods and designs. The focus of this course is on the identification and creation of communication research problems, the development of designs, data collection, and analysis procedures to address those problems.
Prerequisite: Graduate standing.

COMS 5334. Pedagogy of Public Speaking for Novice Instructors. 3 Hours.
Students examine and evaluate theories, techniques, and strategies for teaching public speaking and develop instructional resources for teaching public speaking. Further, students evaluate different course designs and strategies for public speaking classes, including active learning and flipped classroom practices. Topics include public speaking theories, public speaking assessment, and public speaking course design.
Prerequisite: Graduate Standing.

COMS 5335. Advanced Communication Theory. 3 Hours.
Students survey and evaluate communication theory from varied empirical and critical perspectives. Students scrutinize the process of theory building in order to evaluate existing theories.

COMS 5350. Computer Mediated Communication. 3 Hours.
Students examine how computers mediate communication in various contexts, such as interpersonal relationships, privacy, cyberbullying, social support, and family dynamics. Students study and conduct empirical research on the topic. Prerequistite: None.

COMS 5354. Instructional Communication. 3 Hours.
Students examine theory and research in instructional communication and analyze the communication behaviors and the role instructor-student communication plays in the instructional setting. Students examine instructor and student communication behaviors that influence learning in the classroom.
Prerequisite: Graduate Standing.

COMS 5360. Advanced Interpersonal Communication. 3 Hours.
Students explore methodological and theoretical issues in relational communication with special attention to building ongoing research projects in support of theory.

COMS 5361. Dark Side of Communication. 3 Hours.
Students explore some of the darker aspects of communication, such as how negative behaviors can impact both the perpetrator and the victim of such behaviors. Topics may include bullying, criticism, complaints, verbal aggression, and revenge.

COMS 5362. Advanced Intercultural Communication. 3 Hours.
Students explore current theories and research in the area of intercultural communication, mainly from an interpersonal perspective. Topics may include self-disclosure, interpersonal trust, mate selection, love, interracial relationships, and arranged marriage.

COMS 5363. Interpersonal Conflict. 3 Hours.
Students explore current theories and research in the area of intercultural communication, mainly from an interpersonal perspective. Topics may include self-disclosure, interpersonal trust, mate selection, love, interracial relationships, and marriage.
Prerequisite: Graduate standing.

COMS 5364. Contemporary Family Communication. 3 Hours.
Students engage in historical, theoretical, and social research related to families. Students learn how families in the United States are adapting to the current social, economic, and political environments. Students use a comparative approach to family communication, emphasizing diversity, focusing on how social inequity shapes family experiences, and understanding how personal family experiences fit into the larger social, cultural, and historical context.
Prerequisite: Graduate standing.

COMS 5365. Affectionate Communication in Close Relationships. 3 Hours.
Students examine popular theories and research on affectionate communication. Students also investigate the role of affectionate communication in a variety of relationships (e.g., marital and premarital; long-term and short-term; familial relationships; friendships). Students gain knowledge of important theories of affectionate communication and critique research that examines affectionate communication. Students compose a comprehensive literature review on affectionate communication.
Prerequisite: Graduate Standing.

COMS 5366. Sexual Communication. 3 Hours.
Students explore diverse perspectives on sexual communication, investigate different theories and methodologies related to sexual communication, analyze the historical evolution of sexual communication, and critically evaluate existing research in the field. Moreover, students examine sexual communication within various relationship contexts, including martial and premarital, long-term relationships, and casual sexual relationships.
Prerequisite: Graduate Standing.

COMS 5367. Nonverbal Comm. In Close Relationships. 3 Hours.
Students explore communication theory and research of nonverbal communication in the contexts of close relationships. Students discuss theoretical contributions, ethical considerations, methodological applications, and practical implications of scholarly work by exploring topics of nonverbal communication in contexts such as attraction, affection, power, conflict, deception, and emotions, etc.
Prerequisite: Graduate Standing.

COMS 5370. Advanced Health Communication. 3 Hours.
Students investigate health communication topics that relate to and influence the family and other relationships. Topics may include perspectives and theories in public health, adolescent alcohol and drug abuse, parent-child-physician communication, telemedicine, and rural health concerns.

COMS 5371. Sex & Gender In Communication. 3 Hours.
Students study sex and gender differences and similarities in communication behavior. Students examine the sex and gender scholarship and assess its implications for understanding communication in interpersonal and family relationships.

COMS 5375. Graduate Readings in Communication. 1-3 Hours.
Students study topics that are not covered elsewhere in the graduate curriculum.

COMS 5380. Advanced Family Communication. 3 Hours.
Students examine methodological and theoretical issues in family communication.

COMS 5381. Intergenerational Family Communication. 3 Hours.
Students assess theory and research on family communication as it occurs between members of different generations. Students also examine how the communication between family members of the same generation differs from the communication between family members of another generation.

COMS 5382. Dark Side of Family Communication. 3 Hours.
Students explore the role communication plays in a variety of family problems. Topics may include jealousy, domestic abuse, negligent parenting, and conflict escalation.

COMS 5390. Seminar In Interpersonal Communication. 3 Hours.
Students study advanced topics in interpersonal communication theory and research. Topics rotate from semester to semester. Students may repeat for credit when topics change.

COMS 5391. Seminar In Family Communication. 3 Hours.
Students study advanced topics in family communication theory and research. Topics rotate from semester to semester. Students may repeat for credit when topics change.

COMS 5395. Social Support and Well-Being. 3 Hours.
Students explore theories and research related to the communication of social support and its role in physical, psychological, and social outcomes.

COMS 5396. Advanced Risk Communication. 3 Hours.
Students examine theories and research related to the communication of health, environmental, and technological risks.

COMS 5397. Persuasion & Social Influence. 3 Hours.
Students analyze theories and research related to persuasion and social influence. Topics may include attitudinal and behavioral change.

COMS 5399. Capstone in Communication: Theory & Research. 3 Hours.
Students integrate theory, research, and applied practices to demonstrate mastery of communication concepts. They create a final project or portfolio that applies communication theories to scholarly or practical challenges, preparing them for advanced academic or professional opportunities. Students apply communication principles, engage in critical thinking, make original contributions, and develop professional presentation skills.
Prerequisite: 21 hours of COMS graduate courses.

Composition (COMP)

COMP 5201. Applied Composition. 2 Hours.
The course consists of advanced individualized instruction in the craft of composition for various musical genres.
Prerequisite: Admission to the Master of Music program.

COMP 5202. Applied Composition Large Ensemble. 2 Hours.
(Prior SH course id: CMP 502X); Students focus on the production of a composition for large ensemble, demonstrating professional capability in the field.
Prerequisite: Admission to the Master of Music program.

Computer Science (COSC)

COSC 5050. Independent Study. 1-3 Hours.
Students work on a specific research topic under a faculty member's supervision. The specific topic or problem is chosen from current trends and future research directions, which are not covered in the current Computer Science graduate curriculum. Therefore, the course content will vary based upon the topic that both the student and the mentoring faculty member choose. Variable Credit (1 to 3).
Prerequisite: Consent of instructor.

COSC 5300. Computer Science Internship. 3 Hours.
Students engage in a supervised work environment that provides on-the-job computer science related experience within a public, non-profit, or private organization. Under the supervision of a faculty internship coordinator, students apply computing knowledge and theory learned in the classroom to real-world applications, gain practical software coding and development skills, and get professional networking opportunities for their careers in computing and data science. Students are required to complete 240 hours of internship experience in analyzing, designing, developing, testing, implementing, and maintaining software.
Prerequisite: Department Approval.

COSC 5301. Quantitative Foundations of Computer Science. 3 Hours.
Students are provided the fundamental quantitative methods needed in the area of computer science (CS). Topics may include numbering systems, propositional logic, digital logic, combinatorics, probability and statistics, and automata theory, focusing on their application to computing and information science. This course serves graduate students without an undergraduate degree in a quantitative field by providing necessary stem work. This course may not be counted toward the requirements for a graduate degree in Computer Information Science, Digital Forensics, or Information Assurance and Security.
Prerequisite: Approval by the graduate advisor.

COSC 5302. Computer Science Core Topics. 3 Hours.
Students are provided a solid foundation of Computer Science core concepts, fundamental principles, generalizations, and theories essential to pursuing the CS graduate program. Topics may include computer programming, database systems, and computer networks. This course provides stem work for those graduate students whose undergraduate degrees are not in CS and thus have little exposure to core CS topics. This course may not be counted toward the requirements for a graduate degree in Computer Information Science, Digital Forensics, or Information Assurance and Security.
Prerequisite: Approval by the graduate advisor.

COSC 5310. Cryptography & Steganography. 3 Hours.
This course is designed to cover the theoretical and practical aspects of cryptography and steganography including specification, design, and programming. Topics may include digital signatures, symmetric and asymmetric (public key) algorithms, hash functions, cryptographic algorithms, cost to break algorithms including key safety, Diffie-Hellmann, RSA, key stores, Secure Socket Layers, Virtual Private Networks (VPN), Certificate Authorities, and important cryptanalysis and steganalysis strategies.

COSC 5313. Artificial Intelligence. 3 Hours.
Students engage in a survey of topics in artificial intelligence. Topics may include: history of AI, knowledge representation, knowledge acquisition, search techniques, control strategies, and AI languages. Applications include natural language processing, neural nets, and expert systems.

COSC 5318. Database Systems. 3 Hours.
Students engage in a survey of contemporary topics in database systems. Topics may include: relational database theory, database design issues, normalization, functional dependency, transaction management, indexing, query processing, security integrity issues, data recovery, concurrency problems, optimization, distributed database systems, the client/server model, object-oriented databases, logic/knowledge based systems, and other related topics.

COSC 5319. Algorithm Design and Analysis. 3 Hours.
Students focus on how to design and analyze computing algorithms with emphasis on correctness, -efficiency, and feasibility. Topics may include asymptotic analysis, recurrences and divide-and-conquer algorithms, greedy algorithms, dynamic programming, graph algorithms, and randomized algorithms. Computational complexity theory and computability will also be discussed.

COSC 5320. Computer Architecture & Organization. 3 Hours.
Students are introduced to Computer Architecture and Organization. Topics may include computer evolution and performance issues, the computer systems including system buses, internal and external memory, input/output, and operating system support, CPU issues including computer arithmetic, instruction sets, addressing modes, RISC and superscalar organization, control unit issues, microprogramming, and parallel organization.

COSC 5321. Parallel Computing. 3 Hours.
Students study large-scale parallel processing systems. The central themes are theoretical models, machine architecture, computer algorithms, and programming languages that model, support, describe and implement parallel processing.
Prerequisite: COSC 5319.

COSC 5322. Real-Time and Embedded Systems. 3 Hours.
Students explore real-time and fault-tolerant computing systems. Topics may include interrupt processing, real-time programming and scheduling, fault-tolerant architectures and systems, and robotic programming. Extensive programming will be done.

COSC 5325. Operating System Security. 3 Hours.
Students are provided the rationale and necessity for a full range of security concepts and techniques and how to apply them to multiple operating systems. Students study methodologies for the design of operating system security and forensic techniques for operating systems as well as the identification of best practices in the administration, testing, and security for operating systems.

COSC 5326. Networks & Data Communications. 3 Hours.
Students are introduced to the basic techniques for interconnecting computers and peripherals for decentralized Computer. Network components, digital communications, interconnection architectures, communications protocols for geographic and local area networks and interprocess communications are covered.

COSC 5327. Operating Systems. 3 Hours.
Students engage in a comprehensive study of computer operating systems. Topics may include: computer architecture, concurrent processes, multi-threaded systems, scheduling, memory management, I/O management, file systems, networking and the client/server model, distributed systems, and computer security.

COSC 5329. Mobile Application Development. 3 Hours.
Students learn to create applications for various mobile platforms. Topics may include mobile application development frameworks, software engineering, mobile interface design, programming languages, data management, and application distribution.

COSC 5330. Malware. 3 Hours.
Students are provided an in-depth approach to the identification and deconstruction of malicious software, including static and dynamic analyses, malware deconstruction, and rootkit elimination. The course requires the use of virtual machines to isolate live malware samples, and access to a high-speed internet connection.

COSC 5332. Computer Graphics. 3 Hours.
Students study modern Computer Graphics programming techniques. Topics may include: representations, transformations, and analysis of 2-dimensional and 3-dimensional objects; techniques for hidden surface/edge removal, illumination and shading models, rendering, and practical exercises, using Modern OpenGLgraphics software libraries and applications.

COSC 5335. Database Security. 3 Hours.
Database security has an immense impact on the design of today's electronic information systems. Students are provided an overview of database security concepts and techniques and discuss new directions of database security in the context of a connected commercial world. Students are provided the information needed to develop, deploy, and maintain a secure database solution. The pitfalls of database design, their means of identification and the methods of exploiting vulnerabilities are exposed. Topics may include database authentication, accounts security, wallets, encrypting data while transit and at-rest, database auditing and virtual private database.

COSC 5340. Special Topics. 3 Hours.
Topics and courses are selected to suit individual needs of students. The course may be repeated for additional credit.
Prerequisite: Approval by the graduate advisor.

COSC 6049. Thesis. 1-3 Hours.
This course focuses on the execution of the research project outlined in Thesis 1. During the graduating semester, students will carry out their research plan, analyze data, and draw meaningful conclusions. They will also develop strong academic writing skills for the preparation of a comprehensive thesis document. This course emphasizes effective project management, data analysis, and scholarly writing to ensure students are well-prepared to present their research findings and defend their thesis successfully. Course Equivalents: COSC 6349
Prerequisite: COSC 6348.

COSC 6312. Multimedia Forensics. 3 Hours.
Students examine the theory and practice of multimedia security and forensics. Topics may include image processing, JPEG compression, audio compression (MP3, Advanced Audio Coding, and VOIP), MPEG compression, multimedia source identification, biometrics, steganography, steganalysis, multimedia forgery detection, and pattern recognition techniques for multimedia analysis, multimedia forensics software, and advances in multimedia forensics.
Prerequisite: Approval by the graduate advisor.

COSC 6313. Neural Networks. 3 Hours.
Students are introduced to Neural Networks. Topics may include discussion of variety of standard neural networks, with architecture, training algorithm, and applications; and development of neural network expert systems.

COSC 6314. Data Mining/Knowledge Discovery. 3 Hours.
Students explores the emerging techniques and methodologies in Data Mining for the automatic extraction of latent information and knowledge from ever-evolving huge data. Topics include discussion of variety of data mining and computational algorithms as well as the logic behind the data mining approaches. Students will learn a comprehensive framework to collect, clean, process, extract novel information from large-scale data, and evaluate the result. Recent trends and applications will also be discussed. Course Equivalents: COSC 6414
Prerequisite: COSC 5318.

COSC 6315. Machine Learning. 3 Hours.
Students are provided with the principles, design, and implementation of a broad range of machine learning algorithms. Topics may include computational learning theory, machine learning algorithms, and algorithm assessment techniques. Both a computational aspect (how to compute the answer) and a statistical aspect (how to ensure that future predictions are accurate) of each machine learning algorithm are discussed. Recent trends and application are covered, as well.
Prerequisite: COSC 5319.

COSC 6318. Language and Compiler Design. 3 Hours.
Students engage in a comprehensive study of computer programming languages. Topics may include: language design principles, formal grammars, procedural operating environment, language standardization, and language support for parallel and distributed programming. Language paradigms to be discussed will include procedural programming, logical programming, functional programming, and object-oriented programming.

COSC 6319. Software Engineering. 3 Hours.
Students explore strategies, techniques, and methodologies that deal with the complexity in developing large-scale information systems. Methods for Software engineering methodologies, conventional as well as object-oriented, are discussed. Software measurement and management are discussed. Formal mechanisms for system specification, software development, and project management are introduced.
Prerequisite: Approval by the graduate advisor.

COSC 6321. Distributed Computing. 3 Hours.
Students exam the principles and theories of distributed systems, which include MapReduce, Raft Algorithm, Remote Procedure Call (RPC), etc. In addition, real distributed systems, such as Google File Systems (GFS) and Distributed Transactions, are discussed as examples of recent distributed systems. The course emphasizes both lectures and programming labs, in order to help students validate their understanding through hands-on exercises.
Prerequisite: Graduate Standing.

COSC 6331. Data Visualization. 3 Hours.
Students organize and derive meaning from data by using visual presentation tools and techniques. Topics may include cognitive science, perceptual psychology, data management, data visualization theory, visual designs, evaluations of visual designs, and visualization application programming.
Prerequisite: Graduate Standing.

COSC 6332. Computer Vision. 3 Hours.
Students learn both theoretical and practical aspects of computer vision problems and applications. Topics may include camera models, multi-view geometry, image reconstruction, image processing, image classification, object detection, computational photography, and applications of deep learning techniques to computer vision problems.
Prerequisite: Graduate Standing.

COSC 6333. Deep Learning. 3 Hours.
Students examine the architectures, platforms, tools, trends, and research directions of deep learning. Topics may include the relevant algorithms, techniques, and methodologies of convolutional neural networks, recurrent neural networks, auto-encoders, generative adversarial networks, gated recurrent units, long short-term memory networks, deep reinforcement learning, and recent new deep learning architectures. Students get hands-on practices for analyzing real-world large data with deep learning open-sourced frameworks and software tools.
Prerequisite: Graduate Standing.

COSC 6335. Big Data Analytics. 3 Hours.
Students examine advanced analytic techniques, methodologies, and tools for processing big data whose volume, velocity, and variety are unconventional. Topics include types and characteristics of big data, flexible data storage and cost-effective data processing techniques and methodologies, trends and research directions, and hands-on practices for collecting, storing, manipulating, visualizing, and analyzing big data. Particularly, students acquire hands-on big data analytics and data science skills with open-source computing platforms and tools.
Prerequisite: Graduate Standing.

COSC 6338. Data Science Capstone. 3 Hours.
Students conduct team-based capstone projects, which require student teams to apply the knowledge and skills they gained throughout the computer science graduate programs. Particularly, students target to solve real world data science problems and demonstrate their skills in data engineering, machine learning, data mining, big data analytics, data visualization, and other data science-related subjects. Through active learning, students develop effective oral, visual, and written scientific communication skills.
Prerequisite: Approval by the Graduate Advisor.

COSC 6347. Programming Practicum. 3 Hours.
The practicum provides the student an opportunity to develop their programming and analytical skills by applying concepts and techniques learned in organized classes to real world projects under the supervision of faculty and/or supervisory Computer professionals. Prerequisite: Eighteen hours of Computer and Information Science graduate level coursework. Student must register for this course every semester the practicum is in progress but only three hours of practicum will apply to the student's degree plan.
Prerequisite: Student must register for this course every semester the practicum is in progress but only three hours of practicum will apply to the student's degree plan.

COSC 6348. Thesis. 3 Hours.
This course is designed to guide Computer Science Master's students in the initial stages of their thesis research. In the proposal semester, students will work closely with faculty advisors to identify a research topic, conduct a comprehensive literature review, and formulate a research proposal. The course will emphasize the development of strong research questions, the exploration of relevant methodologies, and the creation of a robust research plan. By the end of this course, students will have a well-defined research proposal ready for approval.

Conducting (COND)

COND 5001. Applied Conducting. 1-4 Hours.
The course consists of advanced individualized instruction in the art of conducting. Instruction focuses on conducting technique, pedagogy and score study. Variable Credit (1-4). Course Equivalents: COND 5201
Prerequisite: Admission to the Master of Music program.

Counselor Education (COUN)

COUN 5011. Counseling Profession & Ethics. 1-3 Hours.
This course is designed to introduce graduate students to the field of counseling, its theoretical and philosophical bases, historical antecedents, eithical issues, professional elements and an overview of current practice environments. Additionally, this course examines the professional codes of ethics and their limitations, the value conflicts in counseling, ethical decision-making models, and the current major ethical issues facing the counseling profession.Variable Credit (1-3).
Prerequisite: Acceptance into a counselor education degree program.

COUN 5088. Special Topics in Counseling. 1-3 Hours.
This course is designed to serve the needs of in-service counselors in schools and those in private practice. Topics will vary as needs demand. May be repeated as scheduled topics vary. Course Equivalents: COUN 5387
Prerequisite: Acceptance into a counselor education degree program.

COUN 5089. Independent Study in Counseling. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3) Consent of Department Chair.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5333. School Counseling: Consulting, Coordinating ,Counseling. 3 Hours.
This course introduces students to the field of school counseling. Emphasis is placed on the evolution of counseling professional identity, and professional ethics. The services provided in a comprehensive program of guidance and counseling are discussed.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5334. Diagnostics and Intervention in Counseling. 3 Hours.
Diagnostic methods will be explored with emphasis on the Diagnostic and Statistical Manual of Mental Disorders. A select overview of psychopathology, assessment, and interventions appropriate to the study of mental disorders will be included. Attention is given to mental health and holistic wellness. COUN 5397 with a grade of C or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5336. Advanced Behavior Pharmacology. 3 Hours.
Students study abnormal behavior and psychopathology to include diagnosis, treatment planning, wellness, and psychopharmacology. These topics are specifically designed to provide students in the clinical mental health program specialized knowledge for the profession of licensed professional counselors. Acceptance into a counselor education degree program.
Prerequisite: COUN 5334, cannot be taken concurrently.

COUN 5364. Theories Of Counseling. 3 Hours.
A comprehensive study is made of the major theories of counseling. Attention is given to systematic ways of viewing the counseling process. Divergences and convergences among theories are examined for practical application. COUN 5011 with a grade of C or higher, can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5370. Career Counseling Across Lifespan. 3 Hours.
This course is designed to assist the counselor in developing and initiating a comprehensive career education program. A study is made of the world of work as well as the dynamics and developmental aspects of vocational choice. Emphasis is also placed on the use of occupational information, test scores, personal data, grades, and other pertinent information in working with students individually and in groups. COUN 5397 with a grade of C or higher, can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5379. Methods Of Research. 3 Hours.
Study is made of types and methods of educational research, the collecting, analyzing and sharing of data with the pubic. The student is expected to complete a research project or field study utilizing appropriate methods of educational research.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5385. Pre-Practicum: Techniques Of Counseling. 3 Hours.
This course is designed to provide experiences in the exploration and application of individual counseling techniques. Role-playing, self-exploration, and structuring of the counseling relationship are emphasized. COUN 5011 and COUN 5364 can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5391. Child & Adolescent Counseling. 3 Hours.
This course is designed to help students develop approaches for putting counseling theories into practice in helping children and adolescents who are experiencing difficulties in their developmental, personal and social growth. COUN 5334 with a grade of C or higher can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5392. Cross Cultural Issues In Counseling. 3 Hours.
This course will examine the sociocultural characteristics and counseling issues related to the varied cultures in today's society. Hispanic, African-American, Native American, and Asian American cultures will be examined along with issues related to gender and Gay/Lesbian concerns.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5393. Administrative Clinical Mental Health Services. 3 Hours.
Students will develop knowledge in the areas of management of human-services programs, specifically in program planning, service delivery, and coordination of program components, coordination of human resources, outreach, education, and consultation with other service providers and referral resources. Students will become familiar with policies, laws, legislation, reimbursement, right-to-practice, and issues relevant to Clinical Mental Health Counseling.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5394. Crisis and Trauma Counseling. 3 Hours.
This course reviews crisis-counseling techniques related to a variety of crisis situations that may occur in families and with individuals in mental health agency and school settings. Students learn the foundations of successful crisis intervention to assist in prevention of crisis and encourage personal growth and coping following a crisis experience. Issues related to family violence and other issues of trauma will be discussed. COUN 5364 with a grade of C or higher can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5397. Human Growth & Development Across the Lifespan. 3 Hours.
A review of theory and research concerning the growth and development of the individual through the lifespan with emphasis placed on childhood and adolescence. The course attempts to relate theory and research to present concerns and problems of teachers through the study of physiological, psychological and social interrelationships. Experience in the procedures of child study are provided.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5398. Sandtray Therapy. 3 Hours.
This course is designed to provide students with extensive practical experience related to sandtray as a therapeutic intervention for children, adolescents, adults, and families. This course uses both didactic and experiential methods to enhance a student's knowledge, skills and competence in using sandtray as a therapeutic modality with clients. The curricula for this course include knowledge of the literature of the discipline and ongoing student engagement in practice related to professional practice. COUN 5364 with a C or higher cannot take concurrently and COUN 5385 with a B or higher, can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 5399. Play Therapy Basics. 3 Hours.
This course is designed to enhance/increase the counselor's understanding of the child's world as perceived by the child, the relationship between the child's world and behavior. The major theories of play therapy, and the utilization of play media to facilitate the child's self-exploration, self-expression, self-understanding, and personal growth will be explored. COUN 5364 and COUN 5385 with a B or higher, cannot be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6331. Advanced Play Therapy. 3 Hours.
This course is designed to provide play therapists with extensive practical research experience in regard to issues relative to the play therapy relationship. Case analysis, theoretical application, and current research issues and trends will be investigated. COUN 5399 with a grade of B or higher, cannot be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6332. Theories: Marriage, Couples, and Family Counseling. 3 Hours.
This course focuses on basic concepts in marriage and family therapy, theories of therapeutic change in families, marriage and family development and foundations of family systems therapy. Approval of counselor education department chair.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6333. Techniques Of Couples Counseling. 3 Hours.
Application of the main approaches in family therapy to clinical work. This includes skill development in working with couples and families in a variety of contexts. COUN 6332 with a grade of C or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6334. Ethical Issues in Marriage and Family Therapists. 3 Hours.
This course studies the current ethical issues and the professional roles of marriage and family therapists, mental health counselors and school counselors. This includes study of the Texas Family Code, the licensing acts for Marriage and Family Therapists and Professional Counselors, and regulations for school counselors.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6335. School Counseling: Leadership, Advocacy, and Accountability. 3 Hours.
A comprehensive study is made of contemporary practices of consultation and coordination in the school counseling profession. The course includes study of community service agencies, referral sources, legal and ethical practices and the acquisition of practical school counseling skills.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6337. Counseling For Sexual Concerns. 3 Hours.
Students will develop an understanding of sexual anatomy, the physiology of sexual function, and therapeutic applicants for assessing, counseling, and referral procedures for clients who present with sexual concerns. Students will investigate various therapeutic approaches when dealing with sexual concerns. Students will explore how life experiences, sexual values, and beliefs about sexual behavior affect the therapeutic interaction and outcome. COUN 5334 and COUN 6332 with a grade of C or higher, cannot be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6338. Techniques of Family Counseling. 3 Hours.
In this course students will develop skills in the application of the main approaches of family therapy clinical work, including working with families in a variety of contexts. COUN 6332 with a grade of C or higher, cannot be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6350. Counselor Ethics: Management, Law, and Practice. 3 Hours.
Students study counselor ethics relating to record management, business/family law, professional practice, and the study of current board rules/regulations, and codes of ethics. COUN 5011 with a grade of C or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6363. Assessment in Guidance and Counseling. 3 Hours.
Study will include the principles of assessment and evaluation in counseling, assessment instruments used in counseling services, elementary statistical concepts, methods of evaluating assessment instruments, the process of synthesizing and interpreting assessment data, and the ethics of assessment.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6364. Counseling For Addictions. 3 Hours.
This course covers the theory, research, and practice of substance abuse prevention and chemical dependency counseling with special application to the functions of counselors. COUN 5334 with a grade of C or higher, can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6370. Family Therapy Applications. 3 Hours.
This course is designed to promote the development of student proficiencies and to deepen understanding of the standards of the Association of Marital and Family Therapy Regulatory Boards (AMFTRB) as they are applied in practice. Connections will be made between theory and practice in a clinical setting. COUN 6332 with a grade of C or higher, cannot be taken concurrently. COUN 6376 or COUN 6386 with a grade of C or higher, can be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6371. Advanced Grief and Crisis Counseling. 3 Hours.
Students analyze and critique issues related to physiological and psychosocial responses to crisis and grief. Topics include suicide and homicide assessments and interventions, crisis intervention after natural disasters, man-made disasters and unexpected events, and working with uncomplicated and complicated grief.
Prerequisite: COUN 5394.

COUN 6372. Neuroscience of Counseling. 3 Hours.
Students will analyze, and critique issues related to neuroscience of counseling. Topics include, but are not limited to, the definition and basics of neuroscience, introduction to brain and nervous system, impact of life events on brain and brain development, and the mind-body connection. This course is structured to provide information about practical, evidence-based application of counseling practices to help clients who experienced life events that negatively impacted their brain development or brain structure.
Prerequisite: COUN 5394.

COUN 6374. Group Counseling. 3 Hours.
Participation in small group activities is a significant part of this course which has been designed to meet the needs of counselors in a variety of settings. The didactic portion of the course will focus on the knowledge, practice, skills, and person of the effective group counselor. COUN 5364 with a grade of C or higher, cannot be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6376. Supervised Practice In Counseling. 3 Hours.
This laboratory course is designed to prepare the student in the practical application and integration of the principles and methods of counseling. Admission as a Degree Candidate. COUN 5334 and COUN 6374, cannot be taken concurrently. COUN 5385 with a B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6386. Internship. 3 Hours.
The course provides supervised experiences in a counseling setting. Study is made of the duties and responsibilities of the counselor at work. COUN 6376 with a grade of B or higher, cannot be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6387. School Counseling Internship. 3 Hours.
Students participate in supervised experiences in a school counseling setting. Students study the duties and responsibilities of the school counselor at work. Two semesters of this course meets the 160-hour practicum required by TEA for students seeking school counselor certification. COUN 6376 with a grade of B or higher, cannot be taken concurrently.
Prerequisite: Acceptance into a counselor education degree program.

COUN 6394. Complex Traumatic Stress in Counseling. 3 Hours.
Students analyze and critique issues related to chronic and complex posttraumatic stress and complex dissociative disorders. Topics include attachment and trauma, developmental psychopathology, vicarious trauma, assessment and diagnosis, dissociative related disorders, neuroscience of trauma, betrayal trauma, interpersonal trauma, and counseling models and other treatment models.
Prerequisite: COUN 5394.

COUN 7088. Special Topics in Counselor Education. 1-3 Hours.

Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7089. Independent Study in Counselor Education. 1-3 Hours.
This course will provide the doctoral student an opportunity to engage in detailed and in-depth study of a program or problem in counselor supervision. The student will work under the supervision of a doctoral faculty member and will be expected to produce a written product or presentation. Approval from doctoral director. Course Equivalents: COUN 7387
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7110. Doctoral Seminar. 1 Hour.
This course is designed to provide an orientation to doctoral studies in counseling, topics of current interest to doctoral students, and the faculty and information regarding areas of study and research related to the doctoral program. This course may be repeated five times, for a maximum of six credits. Must make a B or better.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7331. Advanced Counseling Theories. 3 Hours.
In depth study of major counseling theories, with special emphasis on comparative analysis. Must make a B or better.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7332. Advanced Counseling Appraisal Techniques. 3 Hours.
This is an advanced course in assessment procedures used by counselor educators and directors of counseling and guidance in the schools. A case study approach will be utilized to guide students through the application of assessment, diagnosis and treatment planning for childhood, adolescent, and adult mental disorders and behavior problems. COUN 6363 or equivalent class and COUN 7331 with a grade of B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7334. Theories Of Counselor Supervision. 3 Hours.
This course is designed to introduce students to models of counselor supervision. The course is conducted in a seminar-discussion format and, as part of the course students will provide one or more counselor trainees with supervision.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7336. College Teaching In Counseling. 3 Hours.
Application of planning, instructional, and evaluation skills. Doctoral students lead skill training groups, lecture to a masters level class, and guide group discussion with faculty supervision. COUN 7331 with a grade of B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7337. Advanced Counseling Practicum and Techniques. 3 Hours.
Supervised experience in counseling. Students meet for individual supervision and in a seminar group to assess their effectiveness in their helping relationships, to obtain feedback on tapes and observation, and to integrate these learnings into their counseling behavior. COUN 7331 with a grade of B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7339. Doctoral Internship In Counseling. 3 Hours.
Professional service in field setting appropriate for counseling, consultation, and personnel work, under supervision. May be repeated for a maximum of 6 credit-hours. COUN 7337 with a grade of B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7362. Methods Of Counseling Research. 3 Hours.
Study of both quantitative and qualitative research with emphasis upon an understanding of statistical concepts and procedures necessary to create and implement effective counseling research. COUN 5379 or equivalent class with a grade of B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7363. Application of Counseling Research. 3 Hours.
Fundamental concepts and tools of research applied to educational problems. Each student will prepare a proposal for the dissertation. COUN 7332, COUN 7374, COUN 7362, and COUN 7372, with a grade of B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7372. Qualitative Methodology. 3 Hours.
This course is designed to teach qualitative research methodology within a counseling problems-based contextual framework. The course will emphasize qualitative techniques through lecture, discussion, readings, and field-based research projects using the methods learned. COUN 7331 with a grade of B or higher, cannot take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7373. Statistical Methods for Counselor Education Research. 3 Hours.
This course is designed to teach students how to manage, analyze, and interpret data related to counselor education themes at the doctoral level. The course will address quantitative methods (e.g., descriptive statistics, t-test, one-way and factorial ANOVA) via lectures, exams, small and large group discussions, and computer work both in and outside of class. COUN 7362 with a grade of B or higher, can be taken concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 7375. Advanced Multicultural Counseling. 3 Hours.
This course focuses on the in-depth study of people from diverse cultures seeking counseling services and the critical issues involved in culturally competent counseling. Using the latest research and professional literature, students will utilize multicultural counseling models in our communities. Students will also explore pedagogies for multicultural counselor training. Can be taken concurrently with COUN 7336. COUN 5392 with a grade of B or higher, cannot take concurrently. COUN 7336 with a grade of B or higher, can take concurrently.
Prerequisite: Acceptance into a counselor education doctoral program.

COUN 8033. Dissertation. 1-6 Hours.
The completion of an approved dissertation which will contribute to counseling. Field-based projects will be emphasized. Must be repeated for a minimum of 9 semester hours. Variable Credit (1-3). Completion of counselor education core, research component and research tools courses, successful completion of comprehensive exam and approval of doctoral advisor. Course Equivalents: COUN 8333
Prerequisite: Acceptance into a counselor education doctoral program.

Criminal Justice (CRIJ)

CRIJ 5330. Critical Analysis Of Justice Administration. 3 Hours.
(SH Prior Course ID: CJ 530); Students engage in an analysis of the criminal justice system in the United States that covers the role of justice agencies as part of societal response to crime, the knowledge base of the criminal justice system, issues, problems, and trends.

CRIJ 5332. Perspectives In Criminology. 3 Hours.
(SH Prior Course ID: CJ 532); Students survey the field of criminology that emphasizes perspectives regarding the making of law, breaking of law, and societal responses to the breaking of law.

CRIJ 5334. Courts As Organizations. 3 Hours.
(SH Prior Course ID: CJ 534); Students engage in a critical evaluation of the dispensing of justice in the United States, using a systems theory approach and current court policy.

CRIJ 5363. The Juvenile Offender. 3 Hours.
(SH Prior Course ID: CJ 563); Students explore theoretical perspectives regarding the causes and correlates of juvenile offending. Particular attention is paid to the role of family, peers, and school.

CRIJ 5367. Gender and Criminal Justice. 3 Hours.
Students explore the role of gender in offending, victimization, and criminal justice processing as well as evaluate the influence of gender on working in criminal justice professions. Criminological and victimological theories are assessed in light of gender and the relationship between gender and criminal justice as drawn from both the social and biological sciences.
Prerequisite: CRIJ 5364.

CRIJ 5372. Community Based Corrections. 3 Hours.
(SH Prior Course ID: CJ 572); Students are provided an overview of techniques and procedures used in the supervision of adult and juvenile probationers and parolees and other residents of community-based corrections facilities in addition to the preparation of social history, pre-hearing, and pre-sentence investigation reports. An emphasis is placed on practical problems confronting the probation and parole officers.

CRIJ 5392. Survey Of Research Methods. 3 Hours.
Students examine the theory and application of social science research techniques and designs, with a focus on the interpretation and use of research findings. Students who have not completed an introductory course in research methods within the past five years must take CRIJ 3378 as a prerequisite.

CRIJ 5393. Legal Aspects of the Criminal Justice System. 3 Hours.
(SH Prior Course ID: CJ 593); Students study the aspects of law which are relevant to and essential for a better understanding of the criminal justice system and its related processes.

CRIJ 6093. Independent Studies in Criminal Justice. 1-3 Hours.
(SH Prior Course ID: CJ 693);This course is designed for the directed study of individual students who wish to engage in intensive study in some specific area of research. Variable Credit (1-3). . Course Equivalents: CRIJ 6393
Prerequisite: Consent of the Assistant Dean for Graduate Programs of the College and of the instructor directing the readings.

CRIJ 6099. Thesis. 1-3 Hours.
(SH Prior Course ID: CJ 699); The completion and defense of the Thesis. (The student must be registered in 6099 the semester in which he/she receives his/her master's degree.) Variable Credit (1-3). Course Equivalents: CRIJ 6399 .

CRIJ 6332. Resource Development in the Organizational Context. 3 Hours.
(SH Prior Course ID: CJ 632); Students explore critical issues and strategic questions regarding managing human resources in criminal justice agencies. Policy areas discussed are: (1) employee influence; (2) human resource flow; (3) reward systems; and (4) work systems. Human resource management as a coherent, proactive management model.

CRIJ 6333. Seminar In Organization and Administration. 3 Hours.
(SH Prior Course ID: CJ 633); Students study the bureaucracy and complex organizations with a strong emphasis on the concepts and practices of the organization and management of public agencies in the United States. Special consideration is given to the various philosophies, typologies, and models of administrative systems in criminal justice.

CRIJ 6334. Research Methods and Quantitative Analysis. 3 Hours.
(SH Prior Course ID: CJ 634); Students explore the methods and techniques of research and research design; conducting and assessing research in the criminal justice agency management environment; translation of research findings to policy; and informational resources readily available to the agency manager. This course is designed to prepare students to gather decision-relevant information.

CRIJ 6335. Seminar In Leadership and Management. 3 Hours.
(SH Prior Course ID: CJ 635); Students explore problems and alternative solutions in criminal justice management. The case study method and current readings provide an admixture of practical and educational experiences intended to foster and disseminate new ideas for management strategies, especially as this is impacted by leadership styles, human resources, and the environment.

CRIJ 6336. Computer/Technology Applications For Criminal Justice. 3 Hours.
Students examine the techniques of data processing with emphasis upon utilization and application to criminal justice information management.

CRIJ 6339. Police In Society. 3 Hours.
(SH Prior Course ID: CJ 639); Students examine the evolution of police in modern society with a special emphasis given to the role of the police play in contemporary society. Current research examining the function of the police will be examined.

CRIJ 6360. Seminar In Deviant Behavior. 3 Hours.
(SH Prior Course ID: CJ 660); Students analyze behavior which violates expectations that are shared and recognized as legitimate. Special attention is focused on societal reactions to such behavior.

CRIJ 6361. Social Policy. 3 Hours.
(SH Prior Course ID: CJ 661); Students evaluate the legal, social, economic, philosophic, and controversial issues of governmental programs, administered by federal, state, local units of government, and the client systems served.

CRIJ 6363. Leadership Psychology In Criminal Justice Management. 3 Hours.
(SH Prior Course ID: CJ 663); Students examine the important psychological processes that are involved in dealing with others. The manner in which an individual's thoughts, feelings, and behaviors are influenced by others, especially in a criminal justice leadership environment, is the focal point.

CRIJ 6365. Community Theory and the Administration of Justice. 3 Hours.
(SH Prior Course ID: CJ 665); Students examine the nature of criminal justice organizations as components of the political, social, and economic inter-organizational networks that comprise communities. Topics such as the intersection of criminal justice, mental health, juvenile justice and educational systems are examined. The impact of criminal victimization and attributes of communities that foster crime are examined in detail. The processes that motivate and implement change in community-based organizations are also addressed.

CRIJ 6368. Seminar on Drugs, Society, and Policy Issues. 3 Hours.
(SH Prior Course ID: CJ 668); Students focus on issues and problems surrounding the problem of illicit drugs in society. Particular emphasis is placed on policy related issues.

CRIJ 6372. Seminar In Criminology and Corrections. 3 Hours.
(SH Prior Course ID: CJ 672); Students explore theory and problems in Criminology and Corrections. One or more term papers evidencing qualities of scholarship will be required.

CRIJ 6385. Statistics For Criminal Justice Research. 3 Hours.
(SH Prior Course ID: CJ 685); Students review descriptive and graphical techniques for criminal justice and criminological research, including probability and sampling theory, the normal curve and statistical inference, Central Limit Theorem, Chi-square, T and F distributions, analysis of variance, and linear regression.

CRIJ 6386. Statistics For Criminal Justice Research II. 3 Hours.
Students cover statistical analyses and techniques such as reliability tests, factor analysis, and multiple imputation. Various modeling strategies are also covered, including logistic regression, ordinal regression, Poisson regression, and negative binomial regression.
Prerequisite: CRIJ 6385.

CRIJ 6387. The Ethics Of Criminal Justice. 3 Hours.
(SH Prior Course ID: CJ 687); Students explore ethics and moral philosophy in criminal justice, including the role of natural law, constitutional law, code of ethics, and philosophical principles. Strong emphasis is placed on examining the role of justice in a free society and the practical implications of justice to practitioners of police, courts, and corrections.

CRIJ 6388. Emergent Issues In Criminal Justice Leadership. 3 Hours.
(SH Prior Course ID: CJ 688); This course serves as a capstone course for the Master of Science in Criminal Justice Leadership program, providing an opportunity for the integration of information offered in the program and its relationship to emergent issues. Students address the effect of emergent perspectives in organization theory on public administration in general and more specifically upon criminal justice management and leadership. Students examine the impact of emergent technology upon criminal justice operations as well as study the integration of organization theory, principles of public administration, and community expectations of criminal justice leaders.

CRIJ 6392. Program Evaluation In Criminal Justice. 3 Hours.
(SH Prior Course ID: CJ 692); Students study the principles and techniques of program evaluation, including models and case studies.

CRIJ 6394. Special Topics-Criminal Justice. 3 Hours.
(SH Prior Course ID: CJ 694); This course is needed to offer master's level students the option of registering for a multi-topic course. Students can take the course under various special topics being offered.

CRIJ 6396. Legal Aspects Of Criminal Justice Management. 3 Hours.
(SH Prior Course ID: CJ 696); Students are provided an overview of the legal issues commonly facing managers in criminal justice agencies. Particular emphasis is placed on public employment law including the hiring, promoting, disciplining and discharging of employees, fair employment practices, and agency and administrator civil liability. Both state and federal statutory and case law are examined.

CRIJ 6398. Research & Writing in CJ. 3 Hours.
(SH Prior Course ID: CJ 698); Students are provided an overview of research strategies; principles of research writing; and procedures for initiating, executing, and completing a Thesis. Preparation and approval of a Prospectus. (Preliminary planning for the Thesis should begin during the first semester of graduate work; the student should enroll in CRIJ 6398 after he/she has completed 12 semester hours of graduate work.)

CRIJ 7070. Independent Studies in Criminal Justice. 1-3 Hours.
Directed readings designed to give the student flexibility in developing an area of specialization. Variable Credit (1-3). A student can take only two CRIJ 7070 courses. Course Equivalents: CRIJ 7370
Prerequisite: Enrollment requires prior permission of the appropriate Dean and the supervising faculty which is given only when necessary to meet specific needs of the student and the College.

CRIJ 7330. Seminar In Organization Theory. 3 Hours.
(SH Prior Course ID: CJ 730); Students examine organizational thought with application to criminal justice as well as analyze the developmental state of organizational theory, including historical derivations and the implications of various theoretical bases for organizational functioning.

CRIJ 7333. Proseminar In Criminal Justice Issues. 3 Hours.
(SH Prior Course ID: CJ 733); This course is designed to further doctorial students' professional development in the areas of teaching, research, and career preparation. It will prepare students for successful college teaching, develop and refine skills related to research and writing, and help students prepare for job searches.

CRIJ 7334. Seminar In American Policing. 3 Hours.
(SH Prior Course ID: CJ 734); Students examine the philosophy and role of policing in the United States, politics of policing, managing police organizations, police community relations, police operational and administrative practices, police research, police executive development, emergent issues and problems in policing.

CRIJ 7336. Seminar In American Correction. 3 Hours.
(SH Prior Course ID: CJ 736); Students engage in an in-depth examination of the various issues and problems in corrections as they relate to administration and management. A variety of problems is explored, including the philosophical justification for prisons, personnel management, sentencing and its implications, community-based corrections, rehabilitation, judicial intervention, and correctional reform.

CRIJ 7337. Criminological Theory. 3 Hours.
(SH Prior Course ID: CJ 737); Students are provided an overview of the major paradigms focusing on the causes of crime and deviant behavior with special attention given to the social, political, and intellectual background, which each perspective arose. The course includes a discussion of criminological theories from a philosophy of science perspective focusing on issues such as theory construction, theoretical integration, and the formal evaluation of theory.

CRIJ 7338. Seminar In American Courts. 3 Hours.
(SH Prior Course ID: CJ 738); Students examine the role and structure of prosecution, public defense, and the courts in the United States jurisprudence with emphasis upon criminal law and problems in the administration of justice.

CRIJ 7339. Distribution and Correlates of Crime. 3 Hours.
(SH Prior Course ID: CJ 739); Students engage in a survey of research on the scope and nature of criminal activity and factors correlated with criminal behavior. Attention specifically on four general categories: race/ethnicity, gender, age, and class. Students examine the issues of etiology, victimology, differential police enforcement, sentencing, and correctional practices.

CRIJ 7340. Administration of Justice. 3 Hours.
Students in this advanced seminar address criminal justice systems theory, discretionary decision-making in criminal justice, and factors related to differences and discrimination in system processing.

CRIJ 7342. Advanced Statistics I. 3 Hours.
Students are introduced to multivariate statistical techniques, including multiple regression, logistic regression, discriminate analysis, multivariate analysis of variance, canonical correlation, factor analysis, cluster analysis, and multidimensional scaling. Course Equivalents: CRIJ 7442
Prerequisite: CRIJ 6385 or equivalent in past years.

CRIJ 7360. Advanced Seminar In Criminological Theory. 3 Hours.
(SH Prior Course ID: CJ 760). Students engage in extensive studies in areas of classical and/or current criminological theory. A basic knowledge of criminology is assumed. Emphasis is placed on analytical, critical evaluation, and the advancement of theory.

CRIJ 7366. Seminar on Penalty of Death. 3 Hours.
Students examine the death penalty with a focus on areas of research needed in order to better evaluate the appropriateness of this sanction. This course includes: 1) a specific focus on the death penalty from a variety of different perspectives; 2) a critical examination of the existing body of scholarship; and 3) the identification of what is needed for evolving scholarship in each area.

CRIJ 7371. Special Topics-Criminal Justice. 3 Hours.
(SH Prior Course ID: CJ 771). This course is needed to offer doctoral level students the option of registering for a multi-topic course. The student can take the course under various special topics being offered.

CRIJ 7373. Research Practicum. 3 Hours.
(SH Prior Course ID: CJ 773); Students engage in supervised training, including special applications in information acquisition, storage, retrieval, analysis, and display in criminal justice.

CRIJ 7375. Seminar in Legal Aspects of Criminal Justice. 3 Hours.
Students address legal research, constitutional law, criminal procedure, criminal law, and juvenile justice as relevant to understanding the criminal justice system and its related processes.

CRIJ 7387. Research Design. 3 Hours.
Students engage in advanced study of scientific inquiry with an emphasis on the practical aspects of research design and implementation. Topics may include the philosophy of science; the relationship of sampling theory to statistical theory; studies in causation; non-experimental research; data systems and modern data processing techniques.
Prerequisite: CRIJ 7434 and consent of instructor.

CRIJ 7389. Advanced Statistics II. 3 Hours.
Students engage in a survey of reliability analysis, loglinear, and logit loglinear analysis, nonlinear, weighted and two stage least-squares regression, probit analysis, survival analysis and Cox regression.
Prerequisite: CRIJ 7434.

CRIJ 7393. Computer Based Data Analysis. 3 Hours.
This course is intended to develop proficiency in data analysis using computerized statistical programs such as SPSS. Statistical theory and research design issues are combined with hands-on computer experience. The course emphasizes data management, multivariate statistics, and diagnostics.
Prerequisite: CRIJ 1387, CRIJ 7389, and CRIJ 7434.

CRIJ 8099. Dissertation IV. 1-3 Hours.
Advanced research in criminology or criminal justice. Variable Credit (1 to 3). Course Equivalents: CRIJ 8399
Prerequisite: CRIJ 8396, CRIJ 8397, and CRIJ 8398.

CRIJ 8396. Dissertation. 3 Hours.
Advanced research in criminology or criminal justice.

CRIJ 8397. Dissertation II. 3 Hours.
Advanced research in criminology or criminal justice.
Prerequisite: CRIJ 8396.

CRIJ 8398. Dissertation III. 3 Hours.
Advanced research in criminology or criminal justice.
Prerequisite: CRIJ 8396 and CRIJ 8397.

Curriculum and Instruction (CIED)

CIED 5087. Workshop in Education. 1-3 Hours.
This course is designed to explore the relation of brain development in school-age children and methods for enhancing this development through the use of technology. Studetns will have the opportunity to design instructional aids, which seamlessly implement developmentally appropriate technology in the classroom. Variable Credit (1-3). Course Equivalents: CIED 5387 .

CIED 5088. Special Topics in Curriculum and Instruction. 1-3 Hours.
This course will examine special topics in the field of Curriculum and Instruction. Variable credit (1-3.)

CIED 5089. Independent Study in Curriculum and Instruction. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1 to 3).
Prerequisite: Consent of Department Chair.

CIED 5301. Alternative Teacher Preparation I. 3 Hours.
Students investigate educator best practices with a focus on responsible teaching, instructional strategies, differentiation, and assessment. The course focuses on how common classroom themes can impact the flow and structure of a classroom with intentional focus on best practices and research-based instructional strategies.

CIED 5302. Alternative Teacher Preparation II. 3 Hours.
Students continue to develop their skills of applying educator best practices with a focus on responsible teaching, instructional strategies, differentiation, and assessment. The course focuses on how to implement best practices and research-based instructional strategies for all learners. May be taken concurrently with CIED 5301.
Prerequisite: CIED 5301.

CIED 5333. Role of the Professional Educator. 3 Hours.
In this course, candidates will examine the complexity of the role of professional educators. The history of American education, school reform, professional ethics, technology, and diversity will be addressed.

CIED 5335. Teaching Practices in Science Education. 3 Hours.
Candidates evaluate the conceptual underpinnings of modern approaches to science education and professional development as they relate specifically to teaching and learning science. Principles of learning, students' inquiry strategy development, assessment/evaluation of teaching/learning, and the use of instructional technology are examined using research-based best practices in science inquiry education.

CIED 5337. STEM Education Pedagogy. 3 Hours.
Candidates explore research and practical applications of STEM (Science, Technology, Engineering, and Mathematics) concepts related to STEM education and pedagogy. Graduate students will evaluate both strengths and limitations associated with research-based pedagogies, and gain insights into pedagogical strategies that can serve to enhance practices within STEM education.

CIED 5340. Foundations of United States Education. 3 Hours.
Candidates focus on the historical foundations of elementary, secondary, and post-secondary education with emphasis on teaching and policy in western societies and North American schools.

CIED 5341. Comparative Education. 3 Hours.
Candidates evaluate theories in comparative education, cross-national comparative analysis, educational indicator research, educational transfer and borrowing, and the relationship between culture and education. Special attention is devoted to similarities and differences in educational policy and practice among various nations.

CIED 5342. Socio-Cultural Forces in Education. 3 Hours.
Candidates focus on national and global educational perspectives to examine the social, cultural, political and economic systems that shape society and the role education plays in the process.

CIED 5343. Philosophy of Education. 3 Hours.
Candidates examine educational theory and practice in relation to philosophical perspectives, both classical and contemporary. This course provides graduate students with the knowledge and understanding of various philosophies of education, national and international, and allows them to apply the philosophies to contemporary and classical educational issues.

CIED 5344. Theoretical Foundations for Curriculum. 3 Hours.
In this course, candidates learn the theoretical foundations for curriculum conceptualization, development, evaluation and implementation. Emphasis will be on value and empirical bases of curriculum decision-making strategies for curriculum change.

CIED 5352. Foundations of Project Based Learning. 3 Hours.
Candidates focus on the foundational, research-based elements that are critical to implementation of Project Based Learning, including examination of required elements in pedagogy. These include mastery of skills needed to facilitate K-12 student learning through participation in inquiry, critical thinking, and self-assessment.

CIED 5354. Project Based Learning Culture, Environment, and Management. 3 Hours.
In this course, graduate students focus on leading and managing the learning environment while implementing and maintaining Project Based Learning in a variety of learning venues.
Prerequisite: CIED 5352.

CIED 5356. Project Based Learning Methodology. 3 Hours.
This course focuses specifically on the first three critical elements of an effective Project Based Learning educational setting: planning and developing entry events and driving questions, facilitating student discussions about areas of need, and effectively implementing student voice and choice. This detailed study will prepare graduate students to teach this process to other educators.
Prerequisite: CIED 5352 and CIED 5354.

CIED 5358. Assessment and Analysis of Project Based Learning. 3 Hours.
In this course, candidates focus on the final critical elements of an effective Project Based Learning environment, including development, implementation, and analysis of all assessment components.
Prerequisite: CIED 5352, CIED 5354, and CIED 5356.

CIED 5360. Advanced Techniques and Methods of Instruction. 3 Hours.
Study is made of current and advanced teaching techniques, strategies, and materials. Candidates will identify, research and develop approaches to problems pertaining to their teaching field.

CIED 5370. Foundations of Education Research. 3 Hours.
In this course, candidates will read published research critically, integrate findings with personal experience in order to make reflective instructional decisions, and participate in pedagogical research involving theory building and elementary statistics.
Prerequisite: 9 Graduate level hours in education.

CIED 5371. Applied Research in Education. 3 Hours.
In this course, candidates will analyze educational issues by conducting a research study on a topic of their choosing. A scholarly qualitative or quantitative final paper and presentation of the research will be submitted. Course Equivalents: CIED 5085, CIED 5385
Prerequisite: CIED 5370.

CIED 5382. Instructional Coaching. 3 Hours.
In this course, candidates will examine and engage in a form of job-embedded professional development focused on improving educational practice in order to enhance and build skills as an educational leader.

CIED 5383. Integrating Current Technologies in Education. 3 Hours.
In this course, candidates will study the pedagogical knowledge and instructional skills needed for integrating modern technology tools and approaches in educational process as well as engaging strategies for virtual/online settings and mobile learning.

CIED 5384. Curricular Trends. 3 Hours.
In this course, candidates will examine current trends in curriculum, curriculum development, and assessment of existing curriculum.

CIED 5390. Advanced Methods for Classroom Management and Discipline. 3 Hours.
This course is designed for K-12 educators of all subject areas. Increased proficiency in classroom management skills is the primary objective of the course. Educators will be provided with an understanding of the factors influencing individual and group behavior in school settings; methods of diagnosing school and classroom factors that may be eliciting the problem; and the options available for influencing student behaviors.

CIED 5391. Problems In Teaching Elementary Mathematics. 3 Hours.
Study is made of recent trends in elementary mathematics programs and instructional approaches. Application of research findings to improving the teaching and learning of mathematics is emphasized.

CIED 5392. Problems In Teaching Elementary Science. 3 Hours.
Study is made of recent trends in elementary science programs and instructional approaches. Application of research findings to improving the teaching and learning of science is emphasized.

CIED 5393. Assessment and Accountability. 3 Hours.
In this course, candidates will design and implement effective assessments for a variety of learners as well as provide focused and meaningful feedback. In addition, candidates will critically analyze data for purposes of accountability focused on improving individual and/or organizational performance.

CIED 5394. Curricula for Adult Learning. 3 Hours.
In this course, candidates will examine principles of adult learning, factors affecting curricular design for adults, curriculum planning, implementation, and outcome evaluation. Course Equivalents: CIED 6394 .

CIED 5396. Problems In Teaching Social Studies. 3 Hours.
Study is made of recent trends in elementary social studies programs and instructional approaches. Application of research findings to improving the teaching and learning of social studies is emphasized.

CIED 5397. Human Growth & Learning. 3 Hours.
In this course, candidates will examine theory and current research concerning the growth and development of the individual through the lifespan. Emphasis will be on physiological development including development of the brain, psychological, emotional, and social development.

CIED 5398. Practicum in Classroom Instruction I. 3 Hours.
This course is designed for the candidate who possesses a baccalaureate degree from an accredited university, is seeking Texas teacher certification, has met all requirements for admission to the teacher education program, and is eligible for an internship as defined by the Texas Education Agency guidelines. The intern should be employed as the "teacher of record" in a public school in one of the school districts.

CIED 5399. Practicum in Classroom Instruction II. 3 Hours.
This course is designed for the candidate who possesses a baccalaureate degree from an accredited university, is seeking Texas teacher certification, has met all requirements for admission to the teacher education program, and is eligible for an internship as defined by the Texas Education Agency guidelines. The intern should be employed as the "teacher of record" in a public school in one of the school districts.
Prerequisite: CIED 5398.

CIED 7088. Special Topics. 1-3 Hours.
This course offers graduate students the option of registering for a multi-topic course. The student can take the course under various special topics being offered. Variable Credit (1 to 3). Course Equivalents: LITC 7088, READ 7088 .

CIED 7331. Teaching Strategies for Developmental Mathematics. 3 Hours.
This course explores research and practical application of mathematical concepts related to developmental mathematics education. Principals of learning, students' mathematical strategy development, assessment/evaluation of teaching/learning, and the use of instructional technology will be examined using research-based best practices in developmental mathematics education.

CIED 7339. Policy and the Curriculum. 3 Hours.
Students examine the impact of educational policy as it influences K-12 education and the curriculum in Texas and the United States. Key concepts in educational policy and the way in which the policies impact systems of education at the local, state, and national level are examined, as are power structures created by educational policies. The course also considers the influence of curricular theories and policies.
Prerequisite: Admission to the Ed.D. program in Literacy.

CIED 7349. Curriculum Studies. 3 Hours.
Students engage with the history of curriculum studies while simultaneously looking ahead to its future. They discuss the best in past and present curriculum studies scholarship, engage in thoughtful combinations of well-recognized and pivotal work providing a complete survey of the discipline, coupled with concrete examples of innovative curriculum and an examination of current topics, and analyze contemporary and historical contributions tackling issues such as high-stakes testing, multicultural literacy, and climate change.
Prerequisite: Admission to the Ed.D. program in Literacy.

CIED 7359. Learning Theories and Praxis. 3 Hours.
Candidates integrate foundational research and current knowledge to present original perspectives on learning theories and curricular design from childhood through adulthood. Topics such as the social context of learning, self-directed, informal, and non-formal learning, critical perspectives on learning theories, including epistemological considerations in learning, as well as cognitive and socio-cognitive development are covered.
Prerequisite: Admission to the Ed.D. program in Literacy.

CIED 7369. Philosophical Foundations of Education. 3 Hours.
Students study the strong overlap between philosophy and education with emphasis on the implications of their presuppositions for educational theory and practice. Philosophies of education and theories of schooling are applied to the study of current practices and issues in education and to the development of educational policy and practice.
Prerequisite: Admission to the Ed.D. program in Literacy.

CIED 7379. Educator Activism, Equity, and Advocacy. 3 Hours.
Students investigate educator activism with a focus on tangible steps to create change through advocacy and action. The course focuses on how themes of conflict, compromise, cooperation, and consensus found in curricula can be addressed with an intentional mindset that promotes cooperation and solution driven instruction.
Prerequisite: Admission to the Ed.D. program in Literacy.

CIED 7389. Advanced Survey of Curriculum Research in Education. 3 Hours.
Seminar topics are presented which address a wide variety of current issues and questions of interest to literacy educators and researchers. Topics are designed to assist doctoral students gain currency in specific areas and to explore a possible research agenda. These topics range from international literacy, literacy in an electronic age, to planning literacy pedagogy for teacher preparation programs. Course Equivalents: READ 7301 .

CIED 7390. Assessment Of Math Learning. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include classroom assessment, standardized tests, and assessment instruments for research in mathematics education.

CIED 7393. Research In Mathematics Education. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include selecting a research topic, research instruments, research statistics, and writing the paper.

CIED 7395. Current Issues In Mathematics Education. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include curriculum, textbooks, standards, accountability, parental involvement, legal issues, ethics, and testing.

CIED 7396. Theories Of Learning Math. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include theories of learning mathematics, information processing, cognitive theories, and constructivist theories.

CIED 8030. Dissertation in Literacy Leadership. 1-6 Hours.
This is an individual research course leading to the completion of a dissertation that will contribute new knowledge to the field of reading leadership education. Variable Credit (1-6). (Minimum of 9 semester hours total required.) Course Equivalents: READ 8030, LITC 8030
Prerequisite: Admission to candidacy in the doctoral program in reading leadership education; successful completion of comprehensive exam; and approval of doctoral advisor.

CIED 8320. Application of Literacy Research. 3 Hours.
Research concepts and tools, and knowledge of the literature will be applied to literacy research problems. Each student will prepare a proposal for the dissertation.
Prerequisite: Completion of a minimum of 48 required hours toward the Ed.D. Course Equivalents: READ 8320, CIED 8320 .

Dance (DANC)

DANC 5092. Special Topics. 1-3 Hours.
Special Topic. The course content and subject matter for this course is adaptable to the needs of the student body and provide additional opportunity for student investigation of a topics not generally offered in the graduate dance curriculum. May be repeated for credit provided the repetition is in a different area of study. Variable credit (1-3).
Prerequisite: Graduate standing or department approval.

DANC 5093. Independent Study. 1-3 Hours.
This course is adaptable to the needs and interests of the individual student. Students with specific interests are provided the opportunity to investigate and make application in theoretical, creative or field experience approaches to their area of concentration. May be repeated provided the repetition is in a different area of study. Course Equivalents: DANC 5377, DANC 5393
Prerequisite: Permission of Dance Program Coordinator.

DANC 5301. Pilates Teaching Methods Seminar. 3 Hours.
Students prepare to teach Pilates Matwork from the fundamental through the Super Advanced level in a class or individual private setting. Essential aspects of the course include personal practice, observation of professional Pilates teachers in practice, and student teaching hours.
Prerequisite: Acceptance into the MFA program.

DANC 5333. Development of Advanced Skills In Dance. 3 Hours.
This course includes theoretical concepts and laboratory experiences in dance technique. Course may be repeated for credit with approval of Graduate Advisor of Dance.

DANC 5360. Seminar In Dance Production. 3 Hours.
This course provides experience and information regarding all aspects of dance performance production. Content areas include costuming, lighting and sound design as well as practical skills, such as light board operation, sound recording, and board operation.

DANC 5371. Theory Of Dance. 3 Hours.
An examination is made of the philosophical context within which of dance as an art form functions. Two vastly contrasting aesthetic theories are presented and explored as a means to developing in the student a well-considered and grounded personal aesthetic.

DANC 5373. Laban Movement Analysis. 3 Hours.
Students are provided an overview of Laban Movement Analysis at the graduate level. Course emphasis is placed on the areas of Body, Effort, Shape, and Space as means of describing and understanding non-verbal communication. Focus is on the psychophysical connections that facilitate efficiency and expressivity in movement. Course concepts are introduced through observation, improvisation, exploration, composition, readings, group discussions, and movement assignments. The methodologies of observation and description are explored as means of identifying and analyzing the meaningful and qualitative aspects of human movement. A brief history/application of LMA is included in the curriculum.
Prerequisite: PHYS 1305 and BIOL 2401 or their equivalents.

DANC 5376. Dance Composition I. 3 Hours.
This course includes the analysis of various components of design and development of basic dance studies into more extended dance works.

DANC 5378. Dance Composition II. 3 Hours.
The purpose of this course is to extend understanding of dance as an art and a craft and to improve ability to choreograph an extended dance work.
Prerequisite: DANC 5376 or permission of instructor.

DANC 5380. Dance Composition III. 3 Hours.
This graduate level choreography course builds upon earlier classes as students examine various approaches to the creative process. Emphasis is placed on preparing students for the graduate thesis concert. Exercises and assignments test the student's ability to adapt to a variety of situations and hone problem-solving skills.
Prerequisite: DANC 5376, DANC 5378.

DANC 5384. Dance Pedagogy in Higher Education. 3 Hours.
Students examine various philosophical, theoretical, and methodological approaches to dance pedagogy for teaching at the collegiate level. Content areas include practical application of methods and theories, including designing lesson and unit plans, and composing teaching philosophies.

DANC 5385. Research Methods In Dance. 3 Hours.
Research methods specific to dance theory, choreography, and performance are introduced. Standard and electronic information resources, methods of investigation, and various means of organizing a review of literature are examined. Written and organizational skills are evaluated.
Prerequisite: Graduate standing or permission of the instructor.

DANC 5388. Dance and Integrated Technology. 3 Hours.
Students are introduced to methods of integrating media technologies into the dancer's experience in the areas of dance graphics, sound design for dance, and dance video. Graduate students learn camera, computer and software skills that facilitate their ability to expand creative expression as well as enhance their ability to package and promote themselves as artists in a variety of media.

DANC 5389. Professional Issues in Dance. 3 Hours.
This course is designed for the graduate level student who is preparing to enter the dance profession. Major emphasis will be placed on identifying professional issues in the field of dance and preparing the student for career advancement. By the end of this course, each student will create and package a portfolio in the areas of performance, choreography and academia.

DANC 6098. Thesis. 1-3 Hours.
This phase of the thesis development involves the selection and design of a suitable performance and/or creative project with the completion of review of related literature and research work necessary. The thesis committee must approve a pilot showing of the work-in-progress. Variable Credit (1-3). Course Equivalents: DANC 6398 .

DANC 6099. Thesis. 1-3 Hours.
The exhibition of the thesis consist of a formal thesis concert of the student's performance and/or creative work accompanied by a supporting thesis portfolio. The written paper must comply with the specifications of the written thesis, which are available online via SHSU's Newton Gresham Libarary website. The student must also pass an oral examination, testing general knowledge of dance concepts and traditions that relate to his/her thesis work. (The student must be registered in DANC 6099 the semester in which he/she receives the M.F.A. degree.) Variable Credit (1-3). Course Equivalents: DANC 6399
Prerequisite: Dance 6098 and permission of thesis committee.

Developmental Education (DVED)

DVED 7088. Special Topics in Developmental Education Administration. 3 Hours.
This course offers graduate students the option of registering for a multi-topic course. The student can take the course under various special topics being offered.

DVED 7089. Independent Study in Developmental Education Administration. 1-3 Hours.
Students are provided an opportunity to engage in a detailed field study of a program or problem in developmental education administration. The student works under the supervision of a doctoral faculty member and is expected to produce a written product or presentation.

DVED 7110. Doctoral Study - Developmental Education Administration. 1 Hour.
Students are provided an orientation to doctoral studies in educational leadership, topics of current interest to doctoral students in developmental education administration, and information regarding areas of study and research related to the doctoral program. May be repeated for a total of three credits.
Prerequisite: Admission to the Ed.D. in Developmental Education program.

DVED 7336. Internship in Developmental Education. 3 Hours.
Students participate and are evaluated in an intensive study and field experience relating to positions in developmental education. Doctoral students acquire insight into problems in the leadership process in an operational setting distinct from prior or concurrent work experience.

DVED 7360. Developmental Education and Postsecondary Students. 3 Hours.
Students focus on the populations served by developmental education programs, define developmental education, and explore the historical perspective of the need for developmental education and student development theories. Students' needs, model programs, and best-practices for student learning, development, and retention are explored through collaboration, research and independent inquiry. Course Equivalents: EDLD 7360 .

DVED 7364. Advanced Learning Theory in Developmental Education. 3 Hours.
Students explore an advanced array of learning theories and how these apply specifically to developmental education. Students are required to develop operational models using research in learning theory to facilitate organizational change and implementation of new paradigms in developmental education. An understanding of student learning utilizing the latest pedagogy and technologies grounded in the neurosciences and the new sciences are included. Students become familiar with learning theories and how these theories are applied to diverse educational environments. Course Equivalents: EDLD 7364 .

DVED 7365. Student Noncognitive Development. 3 Hours.
Students explore the development of the whole student with particular interest on areas other than the growth of intellectual competence. Psychological, economic, social and physical barriers to student development are studied. D. program in Developmental Education.
Prerequisite: Admission to the Ed.

DVED 7366. Outcome Assessment in Developmental Education. 3 Hours.
Students focus on evaluation criteria and formative and summative evaluation of developmental students. A general model for evaluation of developmental programs, preparation of evaluation reports, and relevant research findings on student and program evaluation are explored and examined. Course Equivalents: EDLD 7366 .

DVED 7367. Designing Learning Environments in Developmental Education. 3 Hours.
Students focus on instructional design and development, theoretical/philosophical approaches to teaching, current research in developmental instruction, and cognitive and non-cognitive factors in learning and classroom assessment. Students explore major issues, problems, methods, and best practices in the design and delivery of developmental education and learning assistance. Course Equivalents: EDLD 7367 .

DVED 7373. Statistical Methods for Developmental Education. 3 Hours.
This course is designed to familiarize doctoral students with the logic and dynamics of the research process in education and provide students with the opportunity to develop skills in posing research questions, designing studies, collecting and examining data, and interpreting and reporting research results. In particular, students are taught how to use a variety of introductory-level statistical techniques to analyze quantitative data in education research. Students learn to (a) use statistical software to analyze data and (b) present results in an acceptable written format for social scientists. The curricula for this course include knowledge of the literature of the discipline and ongoing student engagement in research related to professional practice.
Prerequisite: EDLD 7362.

DVED 7387. Independent Study. 3 Hours.
Students are provided an opportunity to engage in a detailed field study of a program or problem in developmental education. Students work under the supervision of a doctoral faculty member and are expected to produce a written product or presentation.

DVED 8033. Dissertation Preparation. 1-6 Hours.
Students work to complete an approved dissertation which will contribute to developmental education. Minimum of 9 hours total required.
Prerequisite: Completion of required Leadership Core and Research Component coursework and successful completion of comprehensive exam.

Dietetics (DIET)

DIET 5079. Dietetic Internship Practicum. 1-3 Hours.
This course is composed of a supervised internship in an area of specialization. Course may be repeated for credit. Variable Credit (1-3).

DIET 5367. Consumer & Food Technology. 3 Hours.
Investigations of recent developments in food production and marketing; consideration of physical and chemical factors influencing the quality of food; implications and guidelines for the consumer. Course Equivalents: FACS 5367 .

DIET 5383. Research Problems. 3 Hours.
This course is tailored to the needs of students in the Dietetic Internship (DI) Program in regard to research, project development, and problem solving. Each student will conduct an individual project. As a team, students will develop a case study based on a nutrition problem with a culturally diverse target population group. Students will develop and market a brochure based on solutions to the developed study. Course Equivalents: FACS 5383
Prerequisite: HUSC 5330 and SOCI 5314.

DIET 5385. Sports Nutrition. 3 Hours.
This course is designed for students to review evidence-based research of nutrient requirements of health promotion and wellness, and for competitive sports in children, adolescents, adults and the elite athlete. Students will be taught various strategies and interventions to provide effective dietary changes for the performance enhancement of athletes across the life cycle in multiple levels of sport activities. Course Equivalents: FACS 5385
Prerequisite: Graduate Standing.

DIET 5395. Dietary Supplements. 3 Hours.
This course will prepare students for identifying the potential benefits or harmful effects of dietary supplements for health, wellness, and medical intervention for illness or athletic performance. A review of the botanical properties and complementary medicinal claims of popular dietary supplements commonly used in various cultures will be reviewed for preventative health, medicinal intervention, and potential ergogenic aids. The Dietary Reference Intakes (DRI)'s for several vitamins and minerals released by the Institute of Medicine's Food and Nutrition Board will also be reviewed. Course Equivalents: FACS 5395
Prerequisite: Graduate Standing.

DIET 5396. Cultural Food Counseling. 3 Hours.
This course focuses on nutrition education strategies and interventions that will improve dietary patterns that relate to cultural values and mores associated with food habits and behaviors. Students will explore and appreciate the cultural factors that affect food patterns, cultural competency, and appropriate medical nutrition therapies and interventions. Course Equivalents: FACS 5396
Prerequisite: Graduate Standing.

DIET 5398. Public Health Nutrition. 3 Hours.
This course emphasizes the various roles of public health nutritionists in the context of global public health concerns and programs, and the role dietitians play in numerous public health programs. Research approaches and core competencies of public health nutritionists, global, and national public health goals and objectives, and interventions within public health nutrition programs are investigated in the course. Course Equivalents: FACS 5398 .

Digital Forensics (DFSC)

DFSC 5050. Independent Study. 1-3 Hours.
Students work on a specific research topic under a faculty member's supervision. The specific topic or problem will be chosen from current trends and future research directions, which are not covered in the current Digital Forensics curriculum, and Information Assurance and Security graduate curriculum. Therefore, the course content will vary based upon the topic that both the student and the mentoring faculty member choose. Variable Credit (1 to 3).
Prerequisite: Consent of instructor.

DFSC 5310. Principle and Policy in Information Assurance. 3 Hours.
Students engage in an investigation into the development of security planning and policy formation, risk management, security education, training and awareness programs. Students examine physical and electronic approaches to data protection and derive appropriate assessment strategies for determining the assurance quality of target systems.

DFSC 5315. Network and Cyber Security. 3 Hours.
Students are provided the framework and procedures for securing computer systems and data networks. Topics may include the methodologies for the design of security systems, establishing security protocols, and the identification of best practices in administration, testing, and response protocols for secure communications systems.

DFSC 5316. File System Forensics. 3 Hours.
Students focus on the important concepts associated with the structures, encoding, boot process and storage technologies of modern computers, and the implications of those concepts regarding the analysis of volumes and file systems for forensics purposes.

DFSC 5317. Digital Security. 3 Hours.
Students are introduced to basic security needs. Topics may include, but are not limited to examination of individual vs. government privacy issues, federal encryption standards, the different layers of security currently available, cryptography, and strategies for evaluation and selection of security methods.

DFSC 5318. Cyber Law. 3 Hours.
Students focus on how the law impacts digital security in diverse ways. Discussion will emphasize the concept of criminal intent, the digital victim as well as address jurisdictional issues and provide an overview of legal terms and issues with which the security manager must address.

DFSC 5325. Organization System Security. 3 Hours.
Students engage in an advanced study of system security concepts as applied to the protection of organizational systems, including (1) principles of security modeling, accountability, and access control; (2) the ISO model for network infrastructure design and protection; (3) communication security and control management; (4) auditing and monitoring; (5) incident management; and(6) law, investigations, and ethics.
Prerequisite: DFSC 5310.

DFSC 5327. Digital Forensics Investigation. 3 Hours.
Students explore tools for the recovery of information on hardware or hidden within other formats. Topics may also include cryptographic analysis, password recovery, the bypassing of specific target operating systems, and obtaining data from a digital device that has been destroyed.

DFSC 5328. Software Forensic Evidence Management. 3 Hours.
Students engage in an analysis of investigative techniques and tools in the detection, investigation, and analysis of digital crimes. Students examine the nature of cyberevidence and the tracking and identification of cybercriminals.

DFSC 5336. Business Continuity Management. 3 Hours.
Students examine identification and assessment of threat, risk, vulnerability, and business continuity in case of disaster, as applied to enterprise IT systems. Students explore the physical safeguards and policies necessary to meet the requirements for the protection of data in a fixed site. In addition, techniques and strategies designed to keep enterprise data in service under critical circumstances are discussed.

DFSC 5338. Ethical Hacking. 3 Hours.
Students learn penetration testing and vulnerability analysis of information technology systems. Topics may include in-depth methodologies, techniques, and tools to identify and exploit vulnerabilities, and also assess security risks to networks, operating systems, and software applications.

DFSC 5340. Special Topics in Digital Forensics. 3 Hours.
Topics and courses are selected to suit individual needs of students. The course may be repeated for additional credit.
Prerequisite: Approval by the graduate advisor.

DFSC 6310. Cyber Warfare & Terrorism. 3 Hours.
Students focus on philosophies, tactics, and targets of cyber terrorist organizations. The course may include discussion of emerging cyber war trends and the roles of the private sector and U.S. Government in responding to, mitigating and preventing electronic offensive actions.

DFSC 6312. Multimedia Forensics. 3 Hours.
Student examine the theory and practice of multimedia security and forensics. Topics may include image processing, JPEG compression, audio compression (MP3, Advanced Audio Coding, and VOIP), MPEG compression, multimedia source identification, biometrics, steganography, steganalysis, multimedia forgery detection, and pattern recognition techniques for multimedia analysis, multimedia forensics software, and advances in multimedia forensics.

DFSC 6313. Wireless Network Security. 3 Hours.
Students are provided advanced study of the full range of algorithms, mechanisms, and technologies in securing various types of wireless communication networks, such as cellular networks, Wireless Local Area Networks, Bluetooth Networks, Mobile Ad Hoc Networks, and Wireless Sensor Networks. Research and applications are explored.

DFSC 6347. Directed Management and Development Project. 3 Hours.
Students are provided the rationale and necessity for a full range of security concepts and techniques and how to apply them to multiple operating systems. Students cover methodologies for the design of operating system security and forensic techniques for operating systems. In addition, the identification of best practices in the administration, testing, and security for operating systems is covered. Continuous enrollment in DFSC 6347 is required until graduation.
Prerequisite: 24 hours graduate coursework.

DFSC 6410. Cyber Forensics Principles. 4 Hours.
Students explore the skill set and conceptual understanding required by digital and cyber forensic scientists and researchers operating in a heterogeneous hardware, software, and network environment. Topics may include hardware and software principles, forensic protocols, data acquisition and discovery of evidence, applicable law, the design, benefits and limitations of digital forensics tools, analysis techniques, and report writing.

DFSC 7106. Seminar in Digital Forensics. 1 Hour.
Students are immersed in emerging trends and issues in digital and cyber forensics. The content of the course may vary from semester to semester but includes analysis of current research, security concerns, standards publications, and professional issues.

DFSC 7300. E-Discovery. 3 Hours.
Students explore the initial phase of litigation to find and provide relevant electronic information and records, or electronically stored information, related to a legal case. Technical content of this course includes records management policies and procedures, and E-Discovery applications and technologies for locating and extracting information and records from massive volumes of data in timely and cost efficient ways.

DFSC 7320. Ethics for Digital Forensics. 3 Hours.
Students examine the ethical issues surrounding the collection, preparation, interpretation, and reporting of digital evidence. The American Academy of Forensic Sciences Code of Conduct and the Digital Forensics Certification Board's Code of Ethics and Standards of Professional Conduct are critically examined and explored. Students examine case materials that feature ethical conflicts and approaches to resolving ethical dilemmas.

DFSC 7330. Digital Forensics Laboratory Management. 3 Hours.
Students examine techniques to cost-effectively establish and manage a computer forensics laboratory, and its subsequent support to successfully conduct computer-related criminal investigations. Topics may include case and evidence management, development of laboratory policies and procedures, funding a digital forensic lab, competency and proficiency testing, equipment validation and verification, lab accreditation from organizations such as the American Society of Crime Lab Directors (ASCLD), and compliance with ISO standards.

DFSC 7340. Digital Forensics Tools & Techniques. 3 Hours.
Students explore the use of commercial and open-source tools for the identification, collection, and analysis of digital evidence. Topics may include the principles of locating and seizing digital evidence, best practices in evidence management, protocols for comprehensive analysis, and a comparative analysis of digital and cyber forensic tool performance.

DFSC 7341. DF Infrastructure. 3 Hours.
Students focus on the development of laboratory policies and procedures, funding a digital forensics lab, training and certification of examiners, competency and proficiency testing. Topics may include validation and verification of digital forensics equipment, compliance with ISO standards, and management of the forensic laboratory.

DFSC 7350. Operating System Forensics. 3 Hours.
Students explore required background knowledge, theory, and practical skills in operating system forensics, including hard disk data acquisition, volume analysis, file system data structure analysis, registry analysis, memory analysis, malware detection, and timeline analysis.
Prerequisite: DFSC 5316.

DFSC 7351. Cloud Computing Forensics. 3 Hours.
Students focus on the security, vulnerabilities, digital evidence retrieval, analysis, and maintenance in virtualized infrastructures and cloud environments. Topics may include the chain of cloud service providers, cloud customers and the complexity of dynamic chain of dependencies between them, and the approaches, methods, and tools that can be used in forensic analysis in virtual and cloud environments.

DFSC 7352. Network Forensic Analysis. 3 Hours.
Students examine start-to-finish methodology and tools for managing network forensics investigation, enabling students to uncover powerful forensic evidence from routers, firewalls, intrusion detection and prevention systems, web proxies, and other network devices. Topics may include network evidence acquisition, packet analysis, network flow analysis, wireless network forensics, network log analysis, and network device forensics.
Prerequisite: DFSC 6410.

DFSC 7353. RAID & Remote System Forensics. 3 Hours.
Students examine the theories and practices of RAID (Redundant Array of Inexpensive Disks) and remote system forensics. Concepts addressed in this course include disk imaging, retrieval, maintenance, backup, analysis, and presentation of digital evidence from RAID and remote systems.
Prerequisite: DFSC 7340.

DFSC 7355. Intrusion Forensic Analysis. 3 Hours.
Students study and practice intrusion detection, vulnerability assessment, and penetration testing. Topics may include traffic analysis, intrusion detection methods and systems, intrusion detection system evaluation, vulnerability assessment, methods, techniques, and tools for penetration testing, and system and network security evaluation and assessment.
Prerequisite: DFSC 6410.

DFSC 7356. Mobile Device Forensics. 3 Hours.
Students explore the required background knowledge, theory, and practical skills pertaining to mobile device forensics. Topics focus on the most widespread operating systems on the mobile market. Students examine mobile device evidence collection, data recovery and analysis techniques and tools, system file recovery, deleted file recovery, and the examination of unallocated space.
Prerequisite: DFSC 7350.

DFSC 7357. Malware Forensic Analysis. 3 Hours.
Students explore the concepts and techniques for analyzing, dissecting, debugging, and reverse engineering malicious software. Forensic techniques for protection and recovery from malicious code are examined in detail.

DFSC 7358. Live System & Memory Forensics. 3 Hours.
Students examine advanced collection and analysis of digital evidence from systems and networks when they are running. Topics may include data acquisition, memory, network connections and traffic, user accounts and passwords, environmental variables, and system and application logs. The course also includes the comparison and evaluation of live forensic tools and techniques.
Prerequisite: DFSC 5316.

DFSC 7359. Social Network Forensics. 3 Hours.
Students examines techniques used to conduct a digital forensic analysis of social networking websites and smart phone social networking applications. In addition, students explore social media artifacts left on computers, such as artifacts in Internet history files, cache, chat logs, web logs, comments, and requests in blogs.

DFSC 7360. Digital Forensics Research Methods. 3 Hours.
Students examine appropriate techniques for the construction of sound research projects. Identification of appropriate research questions and hypotheses, the critical analysis of sources, the development of explanatory models, the selection of appropriate testing mechanisms, and the presentation and interpretation of results are addressed. Emphasis is placed on the development of research and writing capabilities. Case studies from current digital and cyber forensic research are presented.
Prerequisite: DFSC 7362.

DFSC 7362. Computational Forensics. 3 Hours.
Students examine principles and uses of computational intelligence methodologies and algorithms in soft computing and digital forensics. Students become familiar with core concepts of each algorithm and a broad perspective of emerging applications to practical problems in digital forensics. Topics may include fuzzy sets, rough sets, artificial neural networks, evolution computing, probabilistic reasoning, and their applications to digital forensics.

DFSC 7364. Scientific Communications. 3 Hours.
Students examine aspects of scientific communication, specifically writing in the disciplines. The goal of this course is to enable students to write professionally in the field of digital and cyber forensic science. The course includes strategies on writing research papers, dissertations, grants, and conference presentations. Emphasis is placed on how to use multi-media effectively in presentations and technical communications.

DFSC 7365. Commercial Tool Verification. 3 Hours.
Students focus on the principles and techniques in software testing, including the design of high quality tests, the theory behind criteria-based test design, and its application in practice. Topics may include test design, test automation, test coverage criteria, and how to test software in cutting-edge software development environments. Topics may also include proving correctness and static and dynamic analysis.
Prerequisite: DFSC 7340.

DFSC 7600. Internship. 6 Hours.
This is a ten-week, full-time internship in an approved digital forensic science laboratory. This opportunity allows graduate students to apply their theoretical knowledge, practical skills and abilities in a digital forensic science setting.

DFSC 8370. Dissertation. 3 Hours.
This course must be taken five times to obtain 15 hours of credit to satisfy degree requirements for the PhD in Digital and Cyber Forensics Science.
Prerequisite: Successful completion of requirements for admission to candidacy in the Digital and Cyber Forensic Science PhD program.

DFSC 8670. Dissertation II. 6 Hours.
Doctoral candidates develop and finalize their dissertation during this second step of the dissertation process. Under the direction of a dissertation chair and dissertation committee, each doctoral candidate writes a dissertation manuscript in preparation for the dissertation defense. Topics may vary with scopes and stages of individual research projects, and they may include problem statement, research questions, literature review, proposed methodology, system implementation, data collection, data analysis, platform presentation, and dissertation publication.
Prerequisite: Doctoral candidacy in the PhD program in Digital and Cyber Forensics.

Digital Literacy (DLIT)

DLIT 5305. Gaming and Literacy. 3 Hours.
Students examine the impact that gaming, virtual environments, and popular culture have on literacy instruction at all age levels. Students will demonstrate comprehensive knowledge of these digital literacies and how they affect learning. An examination of multiple popular culture platforms will be studied regarding how they can be used in development and design of literacy curricula.

DLIT 5313. Digital Literacy and Pedagogy. 3 Hours.
This course provides graduate students with the ability to evaluate and create effective digital literacy curricula. Topics include instruction design that meets the needs of all learners and development of an understanding and conceptualization of digital literacy's effect on literacy and literate practices.

DLIT 5314. Digital Literacies & Policy. 3 Hours.
This course will provide graduate students with the background and information for administering and evaluating digital literacy programs, policies, and laws to better understand learning in online environments. Students will examine legal issues and rights in designing technology infused literacy programs.

DLIT 5319. Digital Literacies. 3 Hours.
Students learn theories, concepts, and pedagogical implications of digital literacies. The focus is on the way(s) people make meaning in a digital world. Students conceptualize and implement lessons in digital reading, writing, and multimedia production, employing a critical lens to the development of new curricula through digital media. Course Equivalents: READ 5319 .

Early Childhood Education (ECHE)

ECHE 5343. Curriculum Development-Early Childhood Education. 3 Hours.
Study is made of the scope and sequence of learning experiences for young children. Current research on early childhood curriculum development and model programs is examined. The professional standards and Texas Essential Knowledge and Skills (TEKS) for Pre-kindergarten and Kindergarten are presented.

ECHE 5349. Language and Literacy Development in the Young Child. 3 Hours.
A study is made of the current theories, research, and myths surrounding the development of language in the young child. Students will examine language programs and prepare appropriate language materials for preschool/primary children.

ECHE 5355. Current Practices in Early Childhood Settings. 3 Hours.
The course includes planning and developing research-based materials and thematic units for use with young children. An in-depth study of the project approach is presented.

ECHE 5363. Building Relationships with Diverse Families and Children. 3 Hours.
This course is an in-depth study of the relationship between families and schools in diverse communities. Topics addressed include discussions of major theories that support partnerships with parents; models for parent, school, and community partnerships; home, school, and community influences on children's lives; parenting styles; family dynamics; parent education strategies; communicating with parents; and the rights and responsibilities of parents, children, and teachers. Experiences with young children and their families will be required.

ECHE 5373. Theoretical Perspectives in Early Childhood Education. 3 Hours.
Study is made of the historical and philosophical roots of early childhood education from the middle ages to contemporary practice. An in-depth study of theorists, programs, and methods will be an integral part of the course.

ECHE 5375. Development Of The Young Child. 3 Hours.
An examination of theory and current research concerning the growth and development of the individual through the eighth year of life is made. The course relates theory and research to present concerns of individuals in the helping profession through the study of intellectual, psychological, and social interrelationships. Experiences in the procedures of child study is provided.

ECHE 6088. Special Topics in Early Childhood Education. 1-3 Hours.
The topic(s) included will vary with academic program and semester offered. Course Equivalents: ECHE 5388 .

ECHE 6089. Independent Study in Early Childhood Education. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3).
Prerequisite: Consent of Department Chair.

Early Keyboard (EKBD)

EKBD 5201. Individual Performance-Early Keyboard. 2 Hours.
The course consists of advanced individualized instruction on early keyboard instruments, especially harpsichord and fortepiano. Instruction focuses on technique and musicality. Students also attend a weekly studio class that gives them the opportunity to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Economics (ECON)

ECON 5080. Independent Study. 1-3 Hours.
A directed individual study is made of a selected problem in the field of economics. Variable credit (1-3). Course Equivalents: ECON 5380
Prerequisite: Approval of Department Chair and Graduate Coordinator.

ECON 5085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide graduate students exposure to new Economics topics and concepts in a course setting. Variable credit (1-3). Course Equivalents: ECON 5385 .

ECON 5300. Economic Principles And Policy. 3 Hours.
An intensive study of microeconomic and macroeconomic concepts; the price system and how it functions under various market structures including perfect competition, pure monopoly, and imperfect market structures including monopolistic competition and oligopoly; resource markets; national income measurement and determination; inflation and unemployment; money and banking; economic stabilization including monetary and fiscal policy; international policy. This course does not apply to the 36-hour graduate credit hour requirement of the MBA degree program.

ECON 5301. Mathematical Methods for Applied Economics. 3 Hours.
Students analyze and apply mathematical methods that are essential to graduate studies in economics and related disciplines. Topics include matrix algebra, differential calculus, optimization, and their applications to economic modeling.

ECON 5305. Microeconomics. 3 Hours.
Students analyze the behavior of consumers, firms, and markets. Topics include consumer choice models, firms' costs, profits maximization, market structures, uncertainty, and market failures.
Prerequisite: ECON 5301.

ECON 5307. Macroeconomics. 3 Hours.
Students analyze current evidence and theories concerning economic growth and business cycles. Moreover, students will examine the use of fiscal and monetary policies to achieve competing macroeconomic goals of price stability and full employment.
Prerequisite: ECON 5301.

ECON 5325. Econometrics. 3 Hours.
Students examine methods used to estimate, interpret, and apply econometric methods for statistical models in a variety of business and economics settings. Topics include methods for linear cross-sectional models, linear panel-data models, and binary-outcome models.
Prerequisite: BANA 5368.

ECON 5340. International Economics. 3 Hours.
Students analyze a range of topics in international economics with a focus on trade theories, globalization, and financial systems.
Prerequisite: ECON 5305.

ECON 5348. Development Economics. 3 Hours.
Students focus on the microeconomic approaches to poverty-related problems faced by low-income countries. Students analyze the role of human capital, nutrition, infrastructures, credit market, agriculture, program evaluation, and institutions in the development process of low-income countries.

ECON 5350. Applied Topics in Health Economics. 3 Hours.
Students analyze the structure and functioning of the healthcare markets and economic equilibrium in healthcare markets using microeconomic and industrial organization principles. Topics include Grossman's model of demand for healthcare, supply of healthcare, equilibrium in healthcare market under uncertainty and asymmetric information, market failure, role of insurance and risk analysis, and cost-effectiveness/benefit analysis.

ECON 5351. Seminar In Labor Economics. 3 Hours.
Labor economics focuses on short-run and long-run aspects of supply and demand of labor, including theory and empirical analysis of the behavior of participants in the labor force. Readings in current labor economics literature and appropriate research topics will be covered, including the history of labor organizations. Frequent topics include the microeconomic effects of marriage, fertility, and mobility on labor supply, as well as the macroeconomic effects of unemployment on inflation.

ECON 5352. Energy Economics. 3 Hours.
Students use microeconomic techniques to rigorously examine contemporary energy issues. The market structures for various international energy markets are analyzed, as well as the opportunities and challenges of government regulation and de-regulation of energy markets. Economic analysis of business practices and consumer behavior in markets for renewable energy are emphasized.

ECON 5357. Seminar in Managerial Economics. 3 Hours.
This course surveys the fundamental principles of economics that are most relevant to managerial decision-making. Students apply recent developments in economic analysis to topics such as market analysis, profitability and pricing, strategic behavior, and choice under risk and uncertainty.

ECON 5360. Economic Analysis Of Strategy. 3 Hours.
A study of game theoretical tools and their application of important real-world economic phenomena. Topics include: the organization of industry, labor and work-place economics, international trade policies, government and voting strategies, the role of legal institutions in the economy, and bargaining and bidding strategies.

ECON 5370. Economic Theory. 3 Hours.
An integration of micro and macro economic theory with special emphasis on how various economic policy choices may impact the operation of business firms and the national economy. The course requires students to find micro and macroeconomic issues of current interest, gather related quantitative data, and review recent research that apply/test the theories covered in this course.

ECON 5373. Urban Economics. 3 Hours.
Students analyze the economic forces that determine location choices of firms and individuals, as well as the existence and performance of urban agglomerations resulting from these location choices. The methodologies used to measure the spatial distribution of economic activity, public policy solutions to market failures, and urban economic development are examined.

Education Administration (EDAD)

EDAD 5088. Special Topics in Education Administration. 1-3 Hours.
The topic(s) included will vary with academic program and semester offered. Note: Maximum of six hours of coursework allowed in a student's program. Course Equivalents: EDAD 5387 .

EDAD 5089. Independent Study in Education Administration. 1-3 Hours.

EDAD 5332. School Leadership. 3 Hours.
Students are introduced to the basic activities of educational management, theories and concepts, organization, and governance of the public schools.

EDAD 5352. Communication for Educational Leadership. 3 Hours.
Students are provided with the opportunity to assess and improve their verbal, written, and oral communication skills. Group dynamics and leadership approaches to conflict management, team building, and crisis management are addressed. The content is designed to familiarize students with communication skills necessary for leadership in educational organizations and facilitate their communication skills with others.

EDAD 5372. Federal, State, and Local School Law. 3 Hours.
Students study the legal basis of school control; the relation of the federal government to public education, the state as the fundamental legal unit in organization and administration of a state system of schools; the district as the unit of local school control; and legal duties and responsibilities of the state and local boards of education.

EDAD 5386. Special Populations and Special Programs. 3 Hours.
Students learn about special programs offered in public schools such as the following: special and compensatory education, bilingual and ESL education, adult and continuing education, gifted/talented, and vocational and technical education.

EDAD 6110. Workshop in Educational Leadership. 1 Hour.
Students in this course examine current topics in educational leadership. The topics selected for the workshop will be based on needs identified through collaborative endeavors with schools, service centers, professional organizations and governmental agencies. The course may be repeated for a maximum of three hours.

EDAD 6310. School Culture and Communication. 3 Hours.
Students explore effective leadership strategies and practices to improve the school culture, student learning, and teacher growth as well as to ensure the development of collegial relationships and effective collaboration.

EDAD 6362. Principal Practicum/Internship. 3 Hours.
This laboratory course is designed to provide students intensive study and field experience in problems relating to a specific job at the elementary, middle or senior high school level.

EDAD 6370. Campus Business Management. 3 Hours.
Students learn basic campus accounting and budgetary functions as well as the management of the school facility/plant. Students study basic concepts of management of campus activity funds, personnel management, budgetary functions, translating student academic needs into the budget, public finance, facility management; and problems in local, state, and federal support of education.

EDAD 6371. Role of Principal in School Administration. 3 Hours.
This course is designed for school leaders. Consideration is given to organization, program curriculum, plant supervision, and evaluation for the principal functioning at the elementary, middle, or senior high school level.
Prerequisite: Graduate standing.

EDAD 6375. Women in Educational Leadership. 3 Hours.
Students address issues and challenges of particular interest to women in educational leadership positions. The course is designed to encourage prospective women administrators by enhancing leadership, interpersonal. and motivational skills.

EDAD 6378. Instructional Supervision. 3 Hours.
Students explore the development of effective leadership strategies to improve student achievement through curriculum, instruction, assessment, and professional development.

EDAD 6379. Program Evaluation For School Improvement. 3 Hours.
Students develop an understanding of the program evaluation process for overall school improvement and become critical consumers of research to guide decision-making; access resources, databases, and best practice models to inform effective leadership; and effectively use student assessment data to promote academic achievement and intervention programs.

EDAD 6380. Executive Leadership for Superintendents. 3 Hours.
Students develop skills to assume the role of the contemporary superintendent. This course consists of topics, content, and independent inquiry that address the specific and unique leadership needs of districts.

EDAD 6381. District Business and Financial Management. 3 Hours.
Students develop skills to understand basic district accounting and budgetary functions as well as the management of district facilities. This course deals with basic concepts of management of campus activity funds, personnel accounting, instructional budgetary functions, translating student academic needs into the budget, public finance; problems in local, state, and federal support of education and state financial systems with emphasis on Texas; local taxation; budgeting; financing capital items; and fiscal management.

EDAD 6382. Human Resource Management. 3 Hours.
Students study the administrator's role in recruiting and retaining adequate staff. Such topics as recruitment, salary policy, tenure, leaves, contractual obligations, evaluation systems, and academic freedom are considered.
Prerequisite: 12 hours of Principalship core coursework.

EDAD 6383. Learner Centered Leadership. 3 Hours.
Students study the duties and responsibilities of the school district superintendent related to instructional leadership at the district level. This course includes the leadership responsibilities including the importance of collaborative district improvement planning, developing a district culture of high academic expectations, the current state academic accountability system, as well as a systematic coordination of the curriculum, instruction and assessment programs.

EDAD 6384. Superintendent Practicum. 3 Hours.
Students are provided specific opportunities, independent inquiry, and experiences that are necessary for the dispositional and affective elements of the superintendency as candidates learn to manage organizational behavior and district performance.

EDAD 6385. Culturally Proficient School Leadership. 3 Hours.
Students develop an understanding of how organizational culture and climate intersects with diverse subcultures in the school and school community. Students reflect on their own cultural biases and collect data on school culture, climate, and community to develop action plans that address need areas. Students explore the application of organizational, communication, multicultural, and cultural proficiency theories and models to practice.

EDAD 6387. Thesis. 3 Hours.
Students engage in a detailed field study under the direction of graduate faculty. The topic and area of study must be approved by the supervising faculty member.

EDAD 6390. The School Plant. 3 Hours.
The course is designed for school superintendents, business managers, and other school personnel whose responsibilities include school plant planning and management. Topics considered may include how to use and maintain present school plants, keeping the school board and community informed as to building needs, selecting architects, and financing construction, and the developing educational specifications.

EDAD 6394. Advancing Educational Leadership. 3 Hours.
This course is designed to certify individuals as having completed Advancing Educational Leadership. Emphasis is also placed on the improvement of instruction based on data and research findings and demonstration of leadership knowledge and skills.

EDAD 6397. Current Issues For School Adminstrators. 3 Hours.
This course will provide practicing and prospective school administrators an opportunity to become current with state and national education issues. These issues may include school finance, school law, special programs, leadership and management, instructional issues, evaluation of programs and personnel, and changing policies at the state and national level.

Educational Leadership (EDLD)

EDLD 7088. Special Topics in Educational Leadership. 1-3 Hours.
This course offers students studying educational leadership the opportunities for structured coursework on emergent issues or other topics for which courses do not exist in the current catalog. Course Equivalents: EDLD 7110
Prerequisite: Admission to Ed.D. Program in Educational Leadership.

EDLD 7089. Independent Study Educational Leadership. 1-3 Hours.
Variable Credit (1 to 3).

EDLD 7111. Doctoral Studies in Educational Leadership. 1 Hour.
Students explore research in educational leadership, topics of interest to doctoral students in educational leadership, and research tools related to the doctoral program. Will be repeated with a different topic for a total of three credits.

EDLD 7331. Leadership Theory/Application. 3 Hours.
Students examine the many leadership theories, models, and processes with emphasis on the results of the applications of various theories, models, and processes to educational leadership. This course requires knowledge of the literature and ongoing student engagement in research.
Prerequisite: Admission to Ed.D. Program in Educational Leadership.

EDLD 7332. Instructional Theory and Applications. 3 Hours.
Students engage in a systematic study of existing research on key factors influencing instructional effectiveness and on models for school restructuring. The relationship of instruction and school effectiveness is explored in depth. This course requires knowledge of the literature and ongoing student engagement in research.
Prerequisite: Admission to Ed.D. Program in Educational Leadership.

EDLD 7333. Societal Factors Affecting Education. 3 Hours.
Students examine the political, economic, and cultural factors affecting public school education and instructional leadership today. This course is designed to provide instructional leaders with insight and background into the life styles, values, and aspirations of various cultural groups as related to the leadership process.
Prerequisite: Admission to the Ed.D. Program in Educational Leadership.

EDLD 7334. Issues in Contemporary Education. 3 Hours.
Students complete an analysis of the research literature and field-based data relative to current issues facing instructional leaders in contemporary schools. Assessment of enrollment trends, curriculum changes, personal problems, and financial patterns are issues that are addressed. This course requires knowledge of the literature and ongoing student engagement in research.
Prerequisite: Admission to the Ed.D. Program in Educational Leadership.

EDLD 7335. Conflict Arbitration for Contemporary Education. 3 Hours.
Students examine conflict management processes and skills with emphasis on interaction patterns, interpersonal relationships, and communication skills.
Prerequisite: Admission to the Ed.D. Program in Educational Leadership.

EDLD 7336. Educational Leadership Internship. 3 Hours.
Students participate and are evaluated in an intensive study and field experience relating to positions in educational leadership. This course is designed to provide students insight into problems in the leadership process in an operational setting distinct from prior or concurrent work experience.
Prerequisite: Completion of 12 hours of leadership area core.

EDLD 7337. Academic Writing & Research. 3 Hours.
Students develop the skills and strategies for academic literacy, including critical reading and clear writing. Students utilize scientific writing styles and complete a written review of research literature.

EDLD 7338. Organizational Behavior and Theory in Education. 3 Hours.
Students explore the study of organizational theory and behavior. This field is an integration and application of behavioral science knowledge and is built upon contributions from a number of behavioral disciplines. The prominent areas are psychology, sociology, social psychology, anthropology, and political science. Students learn to understand and guide the behavior of others in the workplace.

EDLD 7361. Program Evaluation in Education. 3 Hours.
Students study educational problem solving and accountability and their
Prerequisite: Admission to the Ed.D. Program in Educational Leadership and EDLD 7372.

EDLD 7363. Proposal Development. 3 Hours.
Students apply fundamental concepts and tools of research to educational problems. Each student prepares a proposal for the dissertation. This course requires knowledge of the literature and ongoing student engagement in research.
Prerequisite: Admission to the Ed.D. Program in Educational Leadership and EDLD 7361.

EDLD 7365. Applied Statistics I for Educational Leaders. 3 Hours.
This course is designed to familiarize doctoral students with the logic and dynamics of the research process in education and provide students with the opportunity to develop skills in posing research questions, designing studies, collecting and examining data, and interpreting and reporting research results in educational leadership.
Prerequisite: EDLD 7362.

EDLD 7368. Applied Statistics II for Educational Leaders. 3 Hours.
Doctoral students compute and interpret multivariate statistics to analyze quantitative data used in educational settings. A strong focus is placed on the use of statistical software to analyze data and written presentation results. The curricula for this course include knowledge of the literature of the discipline and ongoing student engagement in research related to processional practice.
Prerequisite: EDLD 7365.

EDLD 7370. Education Policy and Ethics. 3 Hours.
Students are provided opportunities to study how educational policy is developed through micro and macro political elements, to examine ethical and value issues confronting educational leaders, and to demonstrate how individual values drive ethical behavior and ethical decisions. This course requires knowledge of the literature and ongoing student engagement in research.
Prerequisite: Admission to Ed.D. Program in Educational Leadership.

EDLD 7371. Contemporary Issues in Higher Education Leadership & Admin. 3 Hours.
Students develop leadership skills in higher education through the integration of knowledge, skills, and practice in finding effective solutions for student success strategies, cultural proficiencies, and enrollment management initiatives. Through research, collaboration, and independent inquiry, students address academic advisement, developmental education, and other higher education initiatives in preparation for higher education leadership.

EDLD 7379. Leadership in Academic Advising. 3 Hours.
Candidates examine the best practices, key concepts, and exploration of delivery systems for academic advising through collaboration, research and independent inquiry, applying essential concepts of academic advising as a component of student success and retention. Factors to be considered in establishing an advising program include organization and administration of an effective advisement model for diverse populations and the training, development, and assessment of advisors and advising programs.

EDLD 7380. Mixed Methods Research. 3 Hours.
Students gain the knowledge and skills to answer complex educational research questions using a mixed methods research approach. By utilizing a variety of quantitative and qualitative approaches at various stages of the research process, students develop an ability to apply methods of inquiry to problems in education.
Prerequisite: EDLD 7365 and 7372.

EDLD 7387. Doctoral Field Study in Educational Leadership. 3 Hours.
Students are provided an opportunity to engage in a detailed and in-depth field study of a program or problem in educational leadership. The student works under the supervision of a doctoral faculty member and is expected to produce a written product or presentation.
Prerequisite: Admission to the Ed.D. Program in Educational Leadership and permission of Supervising Professor.

EDLD 8033. Dissertation. 1-6 Hours.
The completion of an approved dissertation which will contribute to Instructional Leadership. Minimum of 9 hours total required. Field-based projects will be emphasized. May be repeated. Variable Credit (1-3). Course Equivalents: EDLD 8333
Prerequisite: Admission to the Ed.D. Program in Educational Leadership; completion of required Leadership Core and Research Component coursework and successful completion of comprehensive exam.

Educational Research (EDER)

EDER 7362. Methods of Education Research. 3 Hours.
Students explore various research paradigms and strategies for educational research. Concepts explored include developing problem statements, research questions, sampling, and methods of data collection. Students will analyze ethical issues in research situations. Course Equivalents: EDLD 7362
Prerequisite: Acceptance to an education doctoral program.

EDER 7365. Statistical Methods. 3 Hours.
This applied foundational statistics course is designed to develop the requisite level of critical thinking for conducting valid quantitative research. Doctoral students will learn to compute and meaningfully interpret descriptive and inferential statistics, including tests of relationship and difference. Course Equivalents: CIED 7372, ISDT 7372
Prerequisite: Acceptance to an education doctoral program.

EDER 7372. Qualitative Inquiry. 3 Hours.
This course emphasizes knowledge and skills needed for qualitative inquiry within an educational context. Emphasis is on theoretical foundations of qualitative inquiry along with practical application of methods through field-based activities. Course Equivalents: EDLD 7372
Prerequisite: Acceptance to an education doctoral program and EDER 7362.

EDER 7374. Advanced Statistical Methods. 3 Hours.
This applied advanced statistics course is designed to enhance foundational analytical skills for conducting valid quantitative research. Doctoral students will learn to compute and meaningfully interpret advanced statistical tests, including tests of relationship and differences. Course Equivalents: COUN 7374
Prerequisite: Acceptance to an education doctoral program.

EDER 7375. Advanced Qualitative Inquiry. 3 Hours.
This course exposes students to advanced qualitative inquiry in education. Students explore emerging methodologies, theories, analytical trends/approaches, technologies, and modes of presenting information on educational research from advanced qualitative perspectives. Course Equivalents: LITC 7351, READ 7351
Prerequisite: EDER 7372, COUN 7372, or LITC 7350 and permission of the instructor.

Engineering Technology (ETEC)

ETEC 5369. Special Topics in Advanced Industrial Technology. 3 Hours.
This course will examine advanced special topics/issues and (or) subject matter in the field of Industrial Technology. The sub-divisional fields offered are: Industrial Technology, Industrial Management, Design and Development, and Construction. This course may be repeated as topics and subject matter change. Course Equivalents: ITEC 5369 .

ETEC 5390. Directed Studies. 3 Hours.
This course is designed to provide students with the opportunity to gain specialized experience in one or more of the following areas: Internship, Laboratory Procedures, Individualized Study, Innovative Curriculum, Workshops, Specialized Training Schools, Seminar. In the internship and laboratory procedures segment, the student will gain organization and management techniques through observation and participation in conducting classroom activities and associated laboratory experience. The student may gain experience in a maximum of two areas of competency. In the individualized studies segment, the student will select a problem and work under the direction of a major professor. 1-6 hours, may be repeated or taken concurrently for a maximum of six hours. (Area of study to be indicated on transcript.) Course Equivalents: ITEC 5390 .

ETEC 5398. History and Philosophy of Industrial Education. 3 Hours.
This course is designed to provide the opportunities for in-depth study of the historical background of the industrial education movement. Course Equivalents: ITEC 5398 .

ETEC 6099. Thesis. 1-3 Hours.
Students complete and successfully defend their Thesis. Variable credit (1-3.)

ETEC 6331. Plant Layout And Materials Handling. 3 Hours.
A study of the methods in planning and control of production; operation analysis; routing; scheduling and dispatching; production charts and boards; inventory control; accumulation of material requirements; and use of critical path techniques used in industry. Course Equivalents: ITEC 6331 .

ETEC 6334. Materials Test Technology. 3 Hours.
A study of internal stresses and deformation of bodies resulting from the action of external forces; concepts and techniques of testing tensile, compression, shear, transverse, hardness and the elasticity on various materials and fasteners.

ETEC 6335. Principles And Techniques Of Research In Industrial Education. 3 Hours.
A study of the basic principles of research and the techniques of application as related to Industrial Education. Course Equivalents: ITEC 6335 .

ETEC 6398. Thesis. 3 Hours.
In addition to the preliminary study of the techniques of research, this course involves completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis. Course Equivalents: ITEC 6398 .

ETEC 6399. Thesis. 3 Hours.
In addition to the preliminary study of the techniques of research, this course involves completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis. Course Equivalents: ITEC 6399 .

English (ENGL)

ENGL 5301. Graduate Research: Methods and Theories. 3 Hours.
Students learn graduate-level research methods in literature and the study of the book. Required of all English majors under MA Plan I, MA Plan II, and MEd Plan II. Course Equivalents: ENGL 5330, ENGL 6397 .

ENGL 5302. Literary Theory. 3 Hours.
Students study various theories and theorists of literary interpretation with application and practice in writing criticism. Course Equivalents: ENGL 5368 .

ENGL 5303. History of the Development of the English Language. 3 Hours.
Students study cultural, historical, and philological concepts in the development of the English language from its Indo-European prototype through Anglo-Saxon, Anglo-French, and Early Modern English to its present form. Course Equivalents: ENGL 5389 .

ENGL 5304. English Linguistics. 3 Hours.
Students study sociolinguistics, dialectology, lexicography, stylistics through linguistic analysis, principles of semantics, and linguistics in relation to the teaching of English. Course Equivalents: ENGL 5383 .

ENGL 5306. American Literature: Pre-Civil War. 3 Hours.
Students examine selected works and movements in American literature from the colonial period to the Civil War. Students explore critical issues such as the histories of discovery and conquest, nations and empire, race and slavery, and gender and sexuality. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 5307. American Literature: Post-Civil War. 3 Hours.
Students explore how regional and national American literature after the Civil War attempts to define an American identity and the American experience. Coursework might involve literary exploration of the opening of the American West, the development of African-American literature, and the rise of the great American novel. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 5308. United States Ethnic Literatures. 3 Hours.
Students examine the literary production of various ethnic groups in the United States, and analyze literature of marginalized populations, migrants, and diasporas. Analysis includes critical discussion of political forces that have shaped ethnic literatures. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 5309. British Literature: Pre-Industrial. 3 Hours.
Students analyze literature produced in pre-industrialized Britain and explore the evolution of the English language and literature in its early phases. Topics might include the Icelandic epics, the early and middle English genres, or the impact of the Norman Invasion on Saxon. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 5310. British Literature: Post-Industrial. 3 Hours.
Students explore major developments in the literature of post-industrial Britain by analyzing the aesthetic trends that led to literary movements. Topics might include Romanticism, Realism, Modernism, Post-Modernism, or students might explore the history of particular genres, such as the rise of the novel, lyrical poetry, autobiography, or news reporting. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 5311. Anglophone Literature. 3 Hours.
Students examine world, multicultural, and post-colonial literature, analyzing how global history and politics both shape and are reflected in literary traditions that, in turn, have influenced the history of literature written in English. Students appraise the impact of non-English literatures on writers in the Anglophone tradition to gain an appreciation for the global history and scope of literary traditions. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 5312. Directed Study. 3 Hours.
Students engage in a specialized topic in literature or language under the direct supervision of a faculty member and with written consent of the Department Chair. A student may take no more than six credit hours of directed study during his or her graduate career. Topics will vary. May be repeated once with permission of department Chair. Course Equivalents: ENGL 5339 .

ENGL 5313. Studies in Technical Communication. 3 Hours.
Students undertake an in-depth study of technical and professional communication. Students examine the field and conduct primary research.
Prerequisite: Admission to Graduate Study.

ENGL 5331. Creative Writing: Fiction. 3 Hours.
Students actively participate in a workshop that emphasizes the writing and revision of fiction.

ENGL 5332. Creative Writing: Poetry. 3 Hours.
Students actively participate in a workshop that emphasizes the writing and revision of poetry.

ENGL 5333. Practicum: Editing and Publishing. 3 Hours.
Students study and apply current scholarship in editing and publishing. They have the opportunity to work both on and off campus as writers and editors in various professions.

ENGL 5334. Creative Writing: Nonfiction. 3 Hours.
Students study the art and craft of creative nonfiction across a range of its broadly-defined forms with the purpose of writing original and publishable texts.
Prerequisite: Graduate Standing.

ENGL 5335. Workshop In Teaching Writing. 3 Hours.
Students participate in a workshop format designed for teaching writing in the secondary schools. Topics emphasize applications of current writing theory and research.

ENGL 5336. Narrative Theory. 3 Hours.
Students study primary texts in narrative theory, in addition to the secondary texts that analyze concepts and research in the field. Students spend considerable attention to ideological contributions to narrative theory, past and present.

ENGL 5337. Poetic Theory and Prosody. 3 Hours.
Students study primary texts and readings along with secondary texts that provide analyses of the concepts and research in poetic theory and English prosody. Students spend considerable attention to ideological contributions to poetic theory from a historical perspective.

ENGL 5338. Creative Writing Pedagogy. 3 Hours.
Students examine the pedagogical theories of, and provides practical training in, the teaching of creative writing, both inside and outside of academia.
Prerequisite: Approval from Program Director.

ENGL 5340. The Writer's Life. 3 Hours.
Students examine the writer's life within and beyond the program, both inside and outside of academia. The course will function both as an introduction to graduate-level work in creative writing, editing, and publishing, and as an introduction to the various ways in which writers establish professional lives after the degree.
Prerequisite: Admission to the MFA in Creative Writing, Editing, and Publishing or Approval from Program Director.

ENGL 5367. Practicum in Teaching College Composition. 3 Hours.
Students study modern rhetorical principles and methodologies used in teaching college-level writing.

ENGL 5374. Gender, Sexuality & Literature. 3 Hours.
Students apply current theory and conduct original research to analyze the intersection of gender, sexuality, and literature from various genres, nationalities, and historical ages. Emphases may vary.

ENGL 5384. Rhetoric & Composition Theory. 3 Hours.
Students study selected topics in historical and contemporary rhetoric, rhetorical criticism, and composition theory. Students will apply current theory and research in rhetoric and composition to primary research.

ENGL 6096. MFA Thesis I. 1-3 Hours.
In the first semester of MFA graduate thesis, the student works under close faculty supervision to produce a thesis prospectus approved by all members of the reading committee and submits a plan for completion. Variable Credit (1 to 3).
Prerequisite: Approval of Program Director.

ENGL 6097. MFA Thesis II. 1-3 Hours.
In the second semester of MFA graduate thesis, the student works under close faculty supervision to complete the thesis. The student must enroll in this class from term to term until the thesis is completed. Variable Credit (1 to 3).
Prerequisite: ENGL 6096.

ENGL 6098. MA Thesis I. 1-3 Hours.
In this first semester of graduate thesis, the student works under close faculty supervision to produce a thesis prospectus approved by all members of the reading committee and submits a draft of the introduction. Variable Credit (1-3). Course Equivalents: ENGL 6398 .

ENGL 6099. MA Thesis II. 1-3 Hours.
In this second semester of graduate thesis, the student works under close faculty supervision to complete the thesis. The student must enroll in this class from term to term until the thesis is completed. Variable Credit (1-3). Course Equivalents: ENGL 6399 .

ENGL 6301. Literary Theory Seminar. 3 Hours.
Students thoroughly examine a theory or major theorist in literary studies following contemporary scholarship methods. Students might explore psychoanalysis, ecocriticism, deconstruction, rhetorical analysis, or another major theoretical methodology. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 6302. Seminar in Major Author. 3 Hours.
Students engage in a sustained study and analysis of the career and canon of a major author who has made substantial contributions to the development of American, British, and/or Anglophone Literature. Students synthesize biographical and historical data with an author's literary works in order to fully evaluate the author's major status. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 6303. English Linguistics Seminar. 3 Hours.
Students explore advanced questions about the structure and evolution of the English language. Topics might include phonology, morphology, syntax, semantics, or pragmatics, or explore issues in socio-linguistics present in all works of literature. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 6304. Literary Movements Seminar. 3 Hours.
Students explore the collaborative nature and sociability of authors within international literary movements or traditions, such as Naturalism, Transcendentalism, or Surrealism. Students work with primary texts within the chosen movement and explore how the authors' interactions affect literary production. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 6305. Literary Genre Seminar. 3 Hours.
Students explore the aims, history, and form of a literary genre, such as the novel, the pastoral ode, or the essay. Students deepen their understanding of generic classifications, the relationship between genres, and how generic conventions persistently shape our perceptions of the world. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 6306. Global Ethnic Literatures. 3 Hours.
Students explore the literary production of various underrepresented ethnic groups in the world that influence the history of literature in English. Topics might include political hegemony, immigration and diasporas, national and cultural identity, and the literary marketplace. Topics will vary. May be repeated once with permission of department Chair.
Prerequisite: Graduate Standing.

ENGL 6330. Special Topics in English. 3 Hours.
Students apply current research to an analysis and understanding of a special topic in English language, literature, theory, and/or a writing discipline. The contents and approaches to the materials vary from term to term. Topics will vary. May be repeated twice with permission of the Department Chair.

Family and Consumer Sciences (FACS)

Finance (FINC)

FINC 5080. Independent Study. 1-3 Hours.
This course is designed for the directed study of individual students who wish for intensive supervision in some vital aspect of Finance. Variable Credit (1 to 3). Course Equivalents: FINC 5380
Prerequisite: BUAD 5310, FINC 5300, and approval of Department Chair and Graduate Coordinator.

FINC 5085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide graduate students exposure to new Finance topics and concepts in a course setting. Variable Credit (1 to 3). Course Equivalents: FINC 5385 .

FINC 5300. Business Finance Environment. 3 Hours.
Students examine business financial decision methods, the financial sector, and the economic and legal environment. Students are introduced to financial principles and decision techniques as well as analytical models and software tools. This course does not apply to the 36-hour graduate credit hour requirement of the MBA degree program.

FINC 5310. Financial Management. 3 Hours.
Students examine financial management in today's interdependent and integrated global environment. Topics may include managerial applications, including the use of current techniques for financial analysis, capital allocation, and capital structure.

FINC 5320. Seminar in Commercial Banking. 3 Hours.
Students study the current developments within commercial banking and examine the specific aspects of the banking industry. Both student research and case studies that emphasize managerial application of the literature reviewed are utilized.

FINC 5333. Financial Statement Analysis. 3 Hours.
Students examine how financing, investing, and operating decisions affect financial statements as well as how creditors and investors use financial statements to assess the results of managers' decisions and the effect of alternative accounting methods on the quality of financial reporting.
Prerequisite: FINC 5310 or FINC 5370.

FINC 5338. Selected Topics in Money, Capital, and Security Markets. 3 Hours.
Students engage in an in-depth topical exploration of various aspects of money, capital, and security markets. Topics are explored via analysis of current events and case studies, through examination of the intricacies of financial innovation and adaptation, and/or via individual research projects.
Prerequisite: FINC 5310.

FINC 5340. International Finance. 3 Hours.
Student apply theories of managerial and international finance to the problems of financial management in a global business environment. Topics may include investment analysis, financing choices, identification, measurement and management of foreign exchange risks, trade financing, and financial control of international operations.
Prerequisite: FINC 5310.

FINC 5345. Seminar in Investments. 3 Hours.
Student study financial securities, their valuation techniques, and the markets in which they are traded. In addition, students are provided an overview of portfolio theory and the analytical tools of portfolio management as well as the relationship between risk and return. Includes a survey of current research in investments.
Prerequisite: FINC 5310.

FINC 5370. Administrative Problems in Finance. 3 Hours.
Students review advanced finance topics in business administration and their direct application to administrative challenges. Coverage includes financial modeling with spreadsheets, advanced time value of money, analysis of the financial performance and condition of a business firm, determination of marginal cost of capital, advanced capital budgeting, cash flow analysis, working capital management, and financial policies.
Prerequisite: FINC 5310.

FINC 5390. Seminar in Business Finance. 3 Hours.
Students study theory and practice of assembling, investing, and managing capital. Major topics may include estimating a firm's cost of funds; basic and advanced capital budgeting techniques, including payback period, NPV, IRR, and MIRR; capital structure analysis; dividend policy and practice; risk management; and portfolio diversification. Cases, current developments and readings in business finance are used as appropriate.
Prerequisite: FINC 5310.

FINC 5395. Seminar in Commercial Lending. 3 Hours.
Student engage in an in-depth coverage of the current lending and regulatory issues and techniques appropriate for management of commercial lending activities in modern financial institutions. Research, readings, and case studies are employed to provide students the opportunity to apply the literature in the dynamic financial institutions industry.
Prerequisite: FINC 5310.

Flute (FLUT)

FLUT 5201. Individual Performances-Flute. 2 Hours.
The course consists of advanced individualized instruction on the flute Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Forensic Science (FORS)

FORS 5114. Firearms and Toolmarks. 1 Hour.
Students are provided a broad overview of firearm and toolmark identification for forensic purposes. Terminology, function testing and ammunition are discussed, together with class and individual characteristics, identification criteria and instrumentation. Determination of caliber/gauge, trajectory and distance determination are also covered. Basic toolmark nomenclature, class and individual characteristics, fracture matching and serial number restoration are also addressed.

FORS 5116. Seminar In Forensic Science. 1 Hour.
This graduate seminar series focuses on current topics and research in forensic science.

FORS 5117. Controlled Substances. 1 Hour.
Students are introduced to the concepts, theories, and principles used in the forensic analysis of controlled substances. Methods of forensic analysis of drugs, including pill identification, microscopic examination, color tests, microcrystalline tests, thin layer chromatography (TLC), Fourier transform infrared spectroscopy (FTIR) and gas chromatography-mass spectrometry (GC-MS) will be explored. The source, origin, chemical properties and clandestine manufacture of controlled substances are also discussed. Students gain a fundamental understanding of controlled substance analysis in accordance with the standard of practice in an accredited crime laboratory.

FORS 5118. Questioned Documents. 1 Hour.
This course is designed to provide students with an understanding of techniques and procedures used for forensic document examination. Students explore handwriting comparisons, printed document alterations, and ink analysis.

FORS 5119. Fire Debris. 1 Hour.
Students address evidence collection, analytical techniques, instrumentation and data interpretation related to fire debris. Students learn to interpret analytical results within forensic contexts.

FORS 5226. Law And Forensic Sciences. 2 Hours.
Students are provided an overview of the law-forensic science interface. This includes legal concepts of admissibility of evidence and proof, rules of evidence, structure and hierarchy of criminal courts, and expert testimony. The course also includes direct and cross examination of students in a moot court setting.

FORS 5310. Forensic Molecular Biology. 3 Hours.
Students explore theories, methods, and techniques used in the study and analysis of gene structure, organization, and function in a forensic biology context.

FORS 5333. Forensic Anthropology. 3 Hours.
Students address theories, methodologies, and applications of forensic anthropology. The course covers advanced human osteology and includes hands-on training with skeletal remains. Students learn and apply the methods used to construct a human biological profile, which includes the determination of sex, age, and race based on skeletal features. The processes of human decomposition, and the identification of skeletal pathologies and trauma are also introduced. Three-hour laboratory.

FORS 5337. Fundamentals of Criminalistics. 3 Hours.
Students address the fundamentals of physical evidence concepts, pattern evidence, and forensic biology. Students acquire standards and general practices in criminalistics.

FORS 5360. Pattern and Physical Evidence Concepts. 3 Hours.
Students are introduced to the interpretation of pattern evidence and the forensic analysis of physical evidence. Scientific experiments and analysis of pattern in support of crime scene reconstruction are discussed. Pattern recognition of physical evidence, such as bloodstains, gunshot residues, tire prints, shoeprints, fire debris, explosive, glass fracture, body gesture, and wound patterns, are covered. Physical and chemical techniques for the visualization or enhancement of varies types of patterns are also introduced. Expert interpretation of observed pattern of physical evidence are discussed. Four-hour laboratory. Course Equivalents: FORS 5260 .

FORS 5362. Techniques for Crime Scene Investigations. 3 Hours.
Students are provided an advanced comprehensive review of contemporary techniques for the identification, collection, preservation, and evaluation of evidence found at the crime scene. The assistance of different items of physical evidence in the reconstruction of a crime are studied. The course includes the application of CSI theory in various applied scenarios. Concepts of physical evidence, evidence collection, quality assurance, and chain custody procedures in forensic analysis are also covered.

FORS 5435. Trace/Microscopical Analysis. 4 Hours.
Student engage in the review of the classifications and characteristics of trace evidence and are provided hands-on experience in microscopic examination of physical evidence. A wide variety of chromatographic, spectroscopic, and microscopic techniques, such as stereo microscope, polarized light microscope, digital microscope, comparison microscope, scanning electron microscopy-energy dispersive spectroscopy, micro Fourier transform infrared spectrometer, pyrolysis-gas chromatography-mass spectrometry, are used in this course. The forensic examination of fiber, hair, glass, paint, gun shot residue (GSR), ink, and explosives are covered. Four-hour laboratory. Course Equivalents: FORS 5335 .

FORS 5440. Forensic Biology. 4 Hours.
Students cover the practical DNA analysis of biological evidence. Different extraction methods are discussed as well as techniques for the quantification of DNA. Students are introduced to emerging forensic DNA methods, such as identifying the tissue of origin and assessing the level of DNA degradation and PCR inhibitors in a biological sample. Strategies for the analysis of PCR products (autosomal and Y chromosome STRs), interpretation of results, biostatistics, and quality assurance procedures will be covered. Basic statistical genetics theory are approached to generate a final DNA report.

FORS 5445. Forensic Instrumental Analysis. 4 Hours.
Students are provided a comprehensive overview of the analytical methodology, approaches, and instrumentation used for forensic analysis. Fundamental qualitative and quantitative chemical analysis using advanced instrumentation are reviewed. A wide variety of techniques that are used in a number of forensic disciplines are covered. Well established methods and novel approaches are discussed. Four-hour laboratory.

FORS 6014. Forensic Science Research. 1-3 Hours.
This capstone experience allows students to formally apply their acquired knowledge and skills in forensic science. This course consists of an independent research project which culminates in a formal written report or manuscript. Additionally, students are required to present and defend their scientific research orally in a public forum. Variable Credit (1-3). Course Equivalents: FORS 6114 .

FORS 6094. Special Topics in Forensic Science. 1-4 Hours.
Course Equivalents: FORS 6394 .

FORS 6111. Fundamentals of Research Methods. 1 Hour.
Students are provided a broad overview of theoretical and practical concepts necessary for scientific research. These include an overview of the scientific method, the importance of logical research design, and basic scientific writing skills. Topics covered may include: qualitative and quantitative research approaches, developing and refining research questions and project outlines to adequately test hypotheses, reviewing scientific literature, developing technical writing strategies, and understanding relevant ethical issues.

FORS 6224. Quality Assurance and Ethical Conduct in Forensic Science. 2 Hours.
Students are introduced to the concepts and procedures associated with quality assurance and ethical conduct in forensic science.

FORS 6315. Forensic Population Genetics. 3 Hours.
This course will focus on the application of statistical methods and theory to forensic genetics. Students must have an introductory knowledge of probability theory and statistics. Fundamental topics like ideal populations, random mating, Hardy-Weinberg equilibrium, linkage disequilibrium, disturbing forces, inbreeding, four-allele descent measurements, product rule, independence testing and genetic distance will also be covered. Students will analyze and interpret the results from microsatellite population databases using population genetics software. Course Equivalents: FORS 5115, FORS 5215, FORS 6215
Prerequisite: FORS 5440.

FORS 6317. Forensic Statistics. 3 Hours.
Students address the application of statistical methods to forensic science problems and evidence interpretation. During this course, differences between the frequentist and Bayesian approaches are emphasized. The merits of each approach are explored for a variety of forensic problems, particularly the interpretation of forensic evidence in the courts. Students are exposed to examples pertaining to trace evidence, impression evidence, toxicology, controlled substances, and DNA evidence. Students learn how to construct simple Bayesian networks and utilize statistical software to compute results.

FORS 6319. Controlled Substance Analysis. 3 Hours.
Students will explore controlled substance analysis using instrumental techniques that are commonly encountered in accredited forensic laboratories. Aspects covered in this course include sample processing, presumptive vs. confirmatory testing, analytical instrumentation, drug class-specific analytical schemes, acceptable methodologies, and clandestine laboratories investigation.
Prerequisite: FORS 5117 and FORS 5445.

FORS 6333. Behavioral Genetics. 3 Hours.
Students are provided with an understanding of behavior genetics and the influence of genes and the environment of emotion, personality and behavior in humans and animals.

FORS 6335. Advanced Forensic Chemistry. 3 Hours.
Students address novel scientific techniques in crime scene chemistry and crime lab chemistry. Non-destructive optical methods developed for sensing or identifying physical evidence are particularly emphasized in this course. New developments in chromatographic, spectroscopic, and microscopic techniques for the analysis of fibers, hair, gunshot residue, ink, paints, glass, explosives and narcotics are also explored.
Prerequisite: FORS 5335 and FORS 5445.

FORS 6337. Forensic Medicine. 3 Hours.
Students are provided an overview of forensic medicine and forensic pathology pertaining to medicolegal death investigation. Students analyze legal issues associated with the practice of forensic medicine.

FORS 6345. Advanced Instrumental Analysis. 3 Hours.
Students explore advanced instrumental methods and gain both theoretical knowledge and practical skills. Detailed attention is given to analytical method development and method validation. Students will further develop their analytical and technical skills and integrate instrumental theory into practical applications.
Prerequisite: FORS 5445 and FORS 6446.

FORS 6360. Advanced Forensic Spectroscopy and Spectral Interpretation. 3 Hours.
In this course, students will engage with Infrared and Raman spectroscopy instruments and apply them in forensic science contexts. They will learn and implement strategies for interpreting real-world sample data. A key component will be mastering spectral searches using libraries/databases. Through demonstrations, students will have hands-on opportunities to analyze their own data. They will also explore and apply spectroscopy techniques in seized drug analysis and trace evidence analysis disciplines.
Prerequisite: FORS 5445.

FORS 6361. Advanced Forensic DNA. 3 Hours.
Students learn practical DNA analysis techniques for extremely degraded biological evidence, including hair shafts, nails, teeth, and bones. Topics may include different extraction methods, RNA profiling, alternative DNA analysis strategies (e.g., low copy number, SNPs, X-STRs, mtDNA), next-generation sequencing (NGS), result interpretation, biostatistics, and standard operating procedures. Course Equivalents: FORS 5261. FORS 5361
Prerequisite: FORS 5440.

FORS 6371. Forensic Science Internship. 3 Hours.
This is a six - to ten - week, full-time internship in an approved forensic science laboratory. It allows graduate students to apply their theoretical knowledge, practical skills, and abilities in a forensic science setting.

FORS 6446. Forensic Toxicology. 4 Hours.
Students explore the physico-chemical characteristics of drugs and poisons of forensic interest with a focus on human performance and postmortem forensic toxicology applications. Students address pharmacological and analytical challenges associated with biological evidence as well as qualitative and quantitative analysis of compounds from biological and non-biological matrices and are provided with hands-on experience with chromatographic and spectroscopic techniques that are widely used in forensic laboratories. Four-hour laboratory. Course Equivalents: FORS 5346, FORS 5446 .

FORS 7089. Practicum. 1-3 Hours.
The practicum affords the doctoral student the opportunity to apply research in a practical setting, adapt technologies for maximal use, appreciate the steps necessary for the implementation of new technology within an accredited environment, and observe the technical and non-technical processes involved. During the practicum students must complete the equivalent of a six- to ten-week, full-time placement in an approved forensic science laboratory or facility. Variable credit (1-3) Course Equivalents: FORS 7389
Prerequisite: FORS 6371.

FORS 7094. Advanced Topics in Forensic Science. 1-3 Hours.
This special topic course is adaptable to the needs and interests of the individual doctoral students majoring in Forensic Science. Variable credit (1-3).
Prerequisite: Departmental Approval.

FORS 7315. Advanced DNA Mixture Interpretation. 3 Hours.
Students interpret DNA mixtures and will compare them with known reference profiles, determine contributor status and explore both manual binary and probabilistic deconvolution techniques followed by the estimation of genotype probabilities. Students improve critical thinking skills to properly communicate analytic expertise.
Prerequisite: FORS 6315.

FORS 7331. Research Methods. 3 Hours.
Students focus on the scientific method, research methods, and design. Students are provided the opportunity to discover, structure, and formulate research questions. Through this process, students come to understand the many ways in which researchers can acquire knowledge and insights using a wide variety of research methods applicable to forensic science.
Prerequisite: Three credits of statistics.

FORS 7332. Scientific Communications. 3 Hours.
Students develop the oral and written communication skills necessary for forensic science researchers and practitioners. Students must develop mastery of the following: technical report writing with regard to standard operating procedures, scientific publications and grant proposals; oral presentations, depositions and courtroom testimony of scientific evidence.
Prerequisite: FORS 5226.

FORS 7334. Social Science of Forensics. 3 Hours.
This course addresses the nexus between social and behavioral principles and the conduct of forensic science. Topics addressed include the organization of the forensic enterprise including the structure and functioning of forensic crime labs; performance assessment of forensic systems, organizations and practitioners; sociological, social-psychological, and psychological factors affecting the performance of forensic practitioners; and management theory of forensic workplaces and workers.

FORS 7345. Advanced Mass Spectrometry and Spectral Interpretation. 3 Hours.
Students explore ionization, dissociation, mass analysis, and detection techniques in mass spectrometry instrumentation. Students gain experience with mass spectral interpretation of both odd-electron and even-electron mass spectra. Students are also exposed to mass spectrometry-based applications from the seized drug analysis, toxicology, and trace evidence disciplines.
Prerequisite: FORS 5445.

FORS 7346. Advanced Forensic Toxicology. 3 Hours.
Students focus on advanced principles and practices in forensic toxicology, in particular, advanced analytical, methodological, and interpretive issues. Students apply their knowledge of basic forensic toxicology principles to a variety of analytical and interpretive topics relevant to behavioral and postmortem toxicology, including but not limited to, impaired driving, sexual assault, and death investigation. Course Equivalents: FORS 6346
Prerequisite: FORS 6446.

FORS 7381. Explosive Analysis & Detection. 3 Hours.
Students survey the broad field of explosive engineering and detection to include the safety and transportation classifications. Chemical and physical properties, explosive reagents and byproducts, and detection techniques are addressed, including military and improvised devices, post-blast evidence and constitutional aspects of interdiction.
Prerequisite: CHEM 4440 or FORS 5445.

FORS 7385. Warfare Agents. 3 Hours.
Students evaluate chemical, biological, and radiological warfare agents. These agents are discussed from a chemical and biochemical standpoint including structure, function, mechanism of action, injury, clinical therapy, and recovery. Three credit hours of biochemistry or toxicology at the undergraduate or graduate level are recommended for students taking this course.

FORS 7390. Forensic Laboratory Management. 3 Hours.
Students address key areas of forensic laboratory management and leadership. Students are prepared for administrative and leadership roles in public or private sector forensic science laboratories. The course focuses on the integration of technical and discipline specific policies and procedures into the administrative framework of the crime laboratory. Issues include the quality management system, organizational efficiency, fiscal, personnel and resource management, regulation, certification and accreditation.

FORS 7394. Doctoral Seminar in Forensic Science. 3 Hours.
Students broaden their awareness of forensic science practice and critically evaluate forensic research while contributing to their professional development. The seminar focuses on professional practice issues, theoretical and interpretive topics, and current standards within forensic science. Students critically evaluate proposed and existing standards, analyze the process of standard development, discuss and present on topics related to emerging issues, trends, technologies, and foundational science.

FORS 8099. Dissertation. 1-6 Hours.

Geography (GEOG)

GEOG 5075. Selected Problems in Geography. 1-3 Hours.
This course is designed for individual students who wish intensive supervision in their research or study of special topics in the field of Geography. Variable Credit (1-3).. Course Equivalents: GEOG 5375 .

GEOG 5310. GIS Project Management. 3 Hours.
Management strategies for GIS are examined by presenting GIS as an integrated system of people, computer hardware, software, applications, and data. The course may include design of implementation plans as case studies to explore various techniques associated with each step of this process.

Prerequisite: GEOG 5361, GEOG 5362.

GEOG 5311. GIS in Law Enforcement. 3 Hours.
The primary foci of this course are the application of geospatial technologies in law enforcement and national security. Course topics may include the characteristics of geospatial intelligence and crime incident data, the use of GPS imagery, and the application of other geospatial technologies. Students use methods of spatial analysis to study a variety of public safety phenomena, such as heat mapping, change detection, and geographic profiling.

GEOG 5312. GIS ModelBuilder. 3 Hours.
Students focus on theories, topics, and concepts that provide students with a strong understanding of ModelBuilder, a program designed to create automated routines and workflows within a GIS environment. Through the development of skills and techniques with ModelBuilder, students learn how to create, use, and share interactive models within the ArcGIS platform. They also learn how to document models so others can use them for their own intended purposes.
Prerequisite: GEOG 5362.

GEOG 5313. Ethics in GIS. 3 Hours.
Students learn and examine the ethical guidelines for professionals who use GIS and geospatial technologies. Topics include the ethical issues that arise during data collection, data use, and data display, as well as the obligations of GIS professionals to society, employers, colleagues, and the profession.

GEOG 5314. GIS for Professionals. 3 Hours.
Students solve problems by visualizing, querying, creating, editing, analyzing, and presenting geospatial data in both 2D and 3D environments using ArcGIS mapping applications and/or similar applications.

GEOG 5315. Spatial Database. 3 Hours.
Students examine and apply the theoretical and practical aspects of a spatial database. Specifically, students create, use, edit, and manage spatial and attribute data in a spatial database and define domains, subtypes, and relationship classes. The focus is on the successful design, implementation, and management of a spatial database.

GEOG 5361. Geographic Information. 3 Hours.
Students examine how geospatial data are obtained, created, edited, and utilized. This includes examination of the availability and accuracy of geospatial date, geospatial portals, and the digitizing and scanning of geographic data. The creation and structure of attribute databases, and relational and object-oriented date structures also are discussed.

GEOG 5362. GIS Principles and Application. 3 Hours.
Students address the basic principles of geographic information systems and their application. Structure and functionality of raster and vector based GIS, history of GIS development and evolution, management of attribute data, creation of geospatial data, and applications in numerous fields are covered as well as new developments in the field.

GEOG 5363. Web GIS. 3 Hours.
Students are introduced to the principles and practices of interactive mapping and GIS data distribution across the Internet. Students learn to develop, customize, and publish GIS applications and geoprocessing tasks and share information through web services using ArcGIS Server and ArcGIS Online.

GEOG 5364. Spatial Analysis. 3 Hours.
Students are introduced to the fundamental knowledge and techniques of spatial analysis. Students learn how to effectively use various spatial data to solve real-world problems. Topics covered may include spatial data structure, multiple layer operations, point pattern analysis, and network analysis. Prerequisite GEOG 5361.

GEOG 5365. Digital Image Processing. 3 Hours.
Students develop theoretical understanding and technical proficiency in remote sensing image analysis. Students perform image processing functions and are exposed to all critical phases of project implementation expected of an image analyst. Extensive lab exercises are required.
Prerequisite: GEOG 5361.

GEOG 5366. Cartography And Visualization. 3 Hours.
Students develop theoretical understanding and technical proficiency in the art, science, and techniques used in modern automated cartography and visualization. Emphasis is placed on different mapping techniques and surface rendering. Extensive computer lab exercises are required.
Prerequisite: GEOG 5361.

GEOG 5367. GIS Programming. 3 Hours.
Students learn to use Python programming to develop customized GIS applications. Students become familiar with the fundamental concepts in object-oriented programming and develop programming skills.
Prerequisite: GEOG 5361.

GEOG 5368. Geographic Information Systems Program Use and Applications. 3 Hours.
This is an Internet-based course that requires the successful completion (as indicated by printed certificates) of ten related courses pertaining to GIS program use and applications. The course is taken through the Environmental Systems Research Institute's (ESRI) on-line virtual campus.
Prerequisite: GEOG 5361, GEOG 5362, GEOG 5364.

GEOG 5369. Internship in GIS. 3 Hours.
Students work for either a business or government agency to obtain applied experience in the use of GIS. Students must be supervised by a member of the graduate faculty, who determine whether the nature and amount of the work performed satisfies the requirements for graduate credit. In addition, students must be evaluated by their employer, and this information must be submitted to the Department Chair to be used in assignment of a grade for the course. Students are encouraged to maintain a journal and to present a paper recounting their internship experiences.
Prerequisite: GEOG 5361, GEOG 5362.

GEOG 5371. Geographic Information Systems in Engergy-Related Fields. 3 Hours.
Students focus on the use and application of GIS and related geospatial technologies within a variety of energy related fields. Technological applications within pipeline routing, reservoir mapping, evaluation and visualization, and environmental assessment serve as the primary foci. Geospatial aspects of oil and gas production and distribution also are explored, as will GIS mapping and the management of GIS facilities.

GEOG 5373. Introduction to LiDAR & Radar. 3 Hours.
Students focus on the concepts and applications of Global Positioning Systems (GPS), Light Detection and Ranging (LiDAR), and Radar systems. Topics may include accuracy assessment and appropriate use of LiDAR, Radar, and GPS data products. Students master the skills needed to use these data products in different applications such as topographic mapping, flood inundation studies, vegetation analysis, and 3D modeling. Course components may include lectures, labs, and field work.
Prerequisite: GEOG 5361 or instructor's consent.

GEOG 5374. Advanced GIS Analysis. 3 Hours.
Students learn to systematically and effectively formulate, organize, and implement an advanced GIS analysis project. Topics may include defining research problems, collecting and preparing data, designing analytical methods, and interpreting results. Students perform geostatistical analyses and will learn how to build, modify, and streamline geoprocessing models.
Prerequisite: GEOG 5364.

GEOG 6061. Graduate Seminar In GIS. 1-3 Hours.
This is a graduate seminar featuring results of faculty research projects, research work by graduate students, and discussions by invited speakers from government and industry who are using GIS and related technologies. Course Equivalents: GEOG 6161
Prerequisite: GEOG 5361, GEOG 5362, GEOG 5363, GEOG 5364, GEOG 5367.

GEOG 6099. Thesis II. 1-3 Hours.
The student completes a thesis involving research and study of the applications of geographic information systems and related technologies. The work involved includes research on the approved thesis topic, preparation of a draft, and a final thesis. The thesis must be at minimum of thirty pages in length and must be suitable for publication in a peer reviewed journal on the topic. Students must also make a 30-minute Power Point presentation on the approved topic. Variable Credit (1-3). Course Equivalents: GEOG 6399
Prerequisite: GEOG 5361, GEOG 5362, GEOG 5363, GEOG 5364, GEOG 5367, or consent of graduate supervisor.

GEOG 6398. Thesis I. 3 Hours.
The student begins work on a thesis involving research and study of the applications of geographic information systems and related technologies.
Prerequisite: GEOG 5361, GEOG 5362, GEOG 5363, GEOG 5364, GEOG 5367.

Geology (GEOL)

GEOL 5095. Special Graduate Topics in Geology. 1-3 Hours.
Students engage in an individual study in special areas of geology. Topic content to be selected and agreed upon by the students and member of the geology faculty. Variable Credit (1-3). Course Equivalents: GEOL 5395 .

Guitar (GUIT)

GUIT 5202. Guitar. 2 Hours.
This course is intended for advanced/masters level guitarists who will learn advanced guitar techniques; study transpositions and alternate tunings; and prepare solo and ensemble literature appropriate for the graduate level. Prerequisites: Acceptance into the graduate program in guitar performance, including a performance audition for acceptance to the School of Music.

Harp (HARP)

HARP 5202. Harp. 2 Hours.
Student focus on the practical application of harp technique and repertoire at the graduate level.
Prerequisite: Acceptance into the graduate program in harp, including passing a performance audition for entrance into the School of Music.

Health (HLTH)

HLTH 5097. Special Topics in Health. 3 Hours.
Students acquire professional knowledge and skills through an advanced research, grant, data analytic / surveillance, health quality, or program development / evaluation project with a Public Health or Health Care Quality and Safety faculty or professional. The focus and credit hours of the project will be approved by the graduate coordinator. Variable Credit (1 to 3).
Prerequisite: Permission of graduate coordinator.

HLTH 5317. Case Studies in Occupational Epidemiology. 3 Hours.
Students focus on epidemiology and its applications to healthcare facility quality and safety with an emphasis on the complex issues related to healthcare quality and safety, and the effects of policies on health quality and safety.
Prerequisite: Graduate Standing.

HLTH 5318. Current Topics in Environmental Health. 3 Hours.
Students focus on current environmental health issues that are fundamental in the field of public health. Students learn to apply and analyze the complex issues related to environmental health with a focus on research and policy implications.

HLTH 5331. Foundations of Community Health. 3 Hours.
Students apply the epidemiological, biostatistical methods of investigation to international, national, state, and local health issues. Additionally, the historical and philosophical foundations of community health are presented with an orientation to current health programs, medical care trends, and health problems experienced by diverse populations.

HLTH 5332. Human Ecology. 3 Hours.
Students study the major factors which determine health or illness, including how populations respond to various determinants of health including lifestyle, heredity, environment, and health care resources.

HLTH 5333. Colloquium in Human Sexuality. 3 Hours.
Students study all of the factors influencing growth and development with a consideration of the special problems, including developing family life, sexuality issues, intimate relationships, and the cultural impact they have on society.

HLTH 5334. Colloquium in Use and Abuse of Drugs. 3 Hours.
Student are presented a value education approach to the prevention of drug use and abuse is along with personal, family, community and school factors influencing drug use. The origins and derivations of drugs are explored. The mental, emotional, physical, social and physiological effects from the use of drugs are analyzed.

HLTH 5338. Colloquium in Consumer Health Education. 3 Hours.
Students study consumer goods and services as related to the health of individuals, their families, and their communities. Marketing principles for health promotion and current health care bioethical issues are addressed.

HLTH 5350. Public Health and Social Justice. 3 Hours.
This course examines the relationship between social justice and public health through the analysis of the social determinants of health in at-risk populations. Students describe, measure, and evaluate the consequences of societal injustices; critically analyze public policies, interventions, and services; and apply community-based methods for reducing population health inequities.
Prerequisite: Admission to the Master of Public Health Program, or permission of instructor.

HLTH 5351. Immigrant and Refugee Health. 3 Hours.
This course provides an integrative framework for analyzing the mental, physical, social, and health issues of immigrants, refugees, and migrant populations. Students analyze population health issues facing these diverse groups; the effect of their home country on their level and quality of health; the cultural, social, and religious barriers to health; the ramification of war zones and humanitarian crises; the effect of man-made and natural disasters in their home country; and the legal and economic constraints to health and social services in the US and other countries.
Prerequisite: Admission to the Master of Public Health Program, or permission of instructor.

HLTH 5353. Epidemiology. 3 Hours.
This course focuses on the role and importance of epidemiology in public health research and practice, and investigates the pathways and mechanisms in which diseases are transmitted within populations of people and communities. The course applies epidemiological principles to the investigation of disease outbreaks and their source, injury related data, and the prevention of the future recurrence of the disease through universal measures. Students will integrate epidemiological terminology, research methods, critical thinking, and basic analyses into disease distributions in the public health sector. Diseases discussed range from sudden-onset infectious diseases to non-infectious chronic diseases.
Prerequisite: Admission to Master of Public Health Program.

HLTH 5355. Health Services Administration. 3 Hours.
Students are introduced to the domain of health care administration and management. Topics discussed in the course may include organizational theories, leadership strategies, human resource constructs, ethical issues, and marketing initiatives. The content of the course serves as a foundation to the graduate programs in Health.
Prerequisite: Graduate standing.

HLTH 5360. Communication Theory and Practice for Health Professionals. 3 Hours.
Students engage in a laboratory experience built around research on motivational concepts as they influence changes, perception, attitudes, values and behavior. Diffusion patterns, group discussion, decision-making, and interviewing techniques will be covered. Attention is given to the selection, use, and evaluation of media, materials, visual aids, press, radio, mass media, etc.

HLTH 5361. Social and Behavioral Determinants of Public Health. 3 Hours.
Students study the history, philosophy, and practices of Health Education. Exploration and application of behavioral science concepts and methodologies to community health education and in-service training of health professionals. Case studies and other practice models are used.

HLTH 5363. Management and Leadership for Health Professionals. 3 Hours.
This course is designed for the individual who will assume some type of supervisory position in health promotion or sports management. The course's focal point involves exposure to administrative skills required of those who serve in a leadership capacity.

HLTH 5365. Aging and Health Promotion. 3 Hours.
Students engage in a discussion of health promotion issues for the elderly, including physical assessment, chronic care, health care maintenance, psychological adaptation, nutrition, and other current topics.

HLTH 5371. Health Care Quality & Safety. 3 Hours.
Students are introduced to foundational concepts in the domain of health care quality and safety. The fundamental topics discussed in the course may include the elements of patient safety and satisfaction, measures for improving organizational and patient quality, accountability standards, and the system approach for continuous improvement. The course is intended to be taken during the graduate student's first year in the program.
Prerequisite: Graduate standing.

HLTH 5373. Risk Management in Health Care Organizations. 3 Hours.
Students study the management and mitigation of risk in the health care environment. Topics may include process analysis using Failure Modes and Effects Analysis (FMEA), root cause analysis, and the reporting of data relating to risk management. The management constructs of monitoring and reporting, risk prevention, and communication strategies to minimize risk and injuries in the health care environment are also covered.
Prerequisite: Graduate standing, admission to the program, and HLTH 5371.

HLTH 5374. Research Seminar. 3 Hours.
Students study research techniques, identification of problems, research designs, and data gathering procedures. Students develop a proposal for a research project.

HLTH 5375. Statistical Design in Health. 3 Hours.
Students study the principles of advanced statistical techniques and measurement theory with emphasis upon their applications to Health, Kinesiology, and related areas.

HLTH 5376. Public Health Biostatistics. 3 Hours.
This applied biostatistics course focuses on the development and application of statistical reasoning and methods in addressing, analyzing, and solving problems in public health; health care; and biomedical, clinical and population-based research. The course provides students with the ability to comprehend, analyze, interpret, and apply statistical concepts for exploring, describing, reorganizing, and analyzing public health data to obtain insight about populations from which data were drawn. Students examine data description and exploratory data analysis used in health-related journals, develop and design medical and health studies, analyze and articulate the role of statistical inference in public health and medical studies, and apply statistical methods for evaluating the association of factors with health outcomes.
Prerequisite: Successful completion of one college level course in statistics with a grade of "C" or higher prior to enrollment, or with approval of instructor.

HLTH 5377. Independent Studies. 3 Hours.
The student with specific interest and background experience in a specialized area will have the opportunity to apply theoretical concepts in a laboratory situation. The student may have practical experiences in a clinic, agency, special school or other types of institutions.
Prerequisite: Permission of the Graduate Coordinator.

HLTH 5378. Health Care Informatics. 3 Hours.
Students are provided an in-depth study of digital technologies in health information management systems. Topics discussed in the course may include approaches to data acquisition, storage systems, retrieval constructs, analysis of information, and technological use to provide information to drive decisions that address opportunities and problems in health care organizations.
Prerequisite: Graduate standing.

HLTH 5380. Global Health Partnerships. 3 Hours.
Students analyze health problems, policies, and challenges beyond national boundaries that require cooperative actions of global partners and multilateral agencies. Students investigate current and emerging global health priorities, infectious diseases, poverty, political conflicts, manmade and natural disasters, emergencies, health inequities, health system reform, and major global initiatives for disease prevention and health promotion. The course content and assignments provide students with the comprehensive contexts for linking the global developmental issues to social justice.
Prerequisite: Admission to the Master of Public Health Program, or permission of instructor.

HLTH 5381. Health Economics and Finance. 3 Hours.
Students explore and analyze select financial management topics commonly used in nonprofit health care organizations including health care related economics principles, not-for-profit accounting statements, and financial project selection techniques.

HLTH 5382. Healthcare Marketing. 3 Hours.
Students examine the unique principles and practices of marketing in healthcare settings. Students also investigate and evaluate the planning, communication, and promotional marketing strategies of healthcare services in today’s competitive and heavily regulated environment. Ethical considerations in healthcare-specific technology, social media, and digital marketing will be emphasized in the course.

HLTH 5384. Quality and Safety Public Reporting Systems. 3 Hours.
Students focus on the quality and safety reporting requirements that foster continued improvement and financial efficiencies by making publicly available report cards and rankings of providers. Students access, manipulate, and create customized reports on health service delivery settings as requested by federal and state governmental entities and accreditation organizations. In addition, students prepare plans of action to manage public perception of report cards and to lead evidence-based organizational initiatives for improvement of quality and safety measures.
Prerequisite: Graduate Standing.

HLTH 6098. Thesis I. 1-3 Hours.
This phase of the thesis investigation includes the completion of the review of the related literature, formulation of the research design and procedures and related pilot studies. Some data collection may also occur, and the thesis symposium must be completed to the satisfaction of the advisor and members of the thesis committee. Variable Credit (1 to 3). Course Equivalents: HLTH 6398 .

HLTH 6099. Thesis II. 1-3 Hours.
This phase of the thesis work includes the completion of the data collection, as well as the actual writing and defense of the thesis. Variable Credit (1 to 3). Course Equivalents: HLTH 6399 .

HLTH 6352. Public Health Grant Writing. 3 Hours.
This course is designed to provide students with the competencies required to be successful in the health grant writing process. The course discusses the procedures to locate appropriate funding agencies and requests for proposals, the process of interpreting the grant instructions, and the methodology necessary to complete the required sections of the grant narrative. In addition, the course includes an introduction to the electronic grant submission process and the forms required by funding agencies.
Prerequisite: HLTH 5355 and HLTH 6396, or permission of instructor.

HLTH 6360. Healthcare Organizational Behavior & Theory. 3 Hours.
Students investigate the organizational and behavioral aspects involved in the operations of a contemporary healthcare delivery organization. Students also examine the leading organizational theories, interpersonal professional skills, and regulatory knowledge that is required to understand, predict, and manage today's healthcare organizations. The behavioral, structural, legal, ethical, and human resources aspects of today's healthcare organizations are analyzed.

HLTH 6365. Health Care Policy. 3 Hours.
Students examine the impact of managed care, the dynamics of competition in the healthcare industry, and the role of government in medical care. Students investigate forces pressuring for change in healthcare, and the reasons why the health system has evolved to its current state. Emphasis is placed on the role of the Affordable Care Act (2010) and how healthcare reform and related legislation and regulation influences the manner in which the public pays for and receives its medical services.
Prerequisite: Admission to the Master of Public Health Program, or permission of instructor.

HLTH 6367. Healthcare Human Resource Management. 3 Hours.
Students investigate the structural and behavioral systems in human resources practices in healthcare management. Students also focus on perspectives of strategic management and the context of the legal environment for healthcare organizations. Human resource management best practices are explored as they relate to health services organizations, performance management, and their application to effectively manage the dynamic legal, social, and economic environment in healthcare organizations.

HLTH 6371. Advanced Concepts in Health Care Quality. 3 Hours.
In this advanced course in health care quality and safety, students use a systems approach to examine quality philosophies and frameworks with a focus on design, validation, quality measure applications, metrics for processes and outcomes, benchmarking concepts, strategic quality management, and the management of human factors.
Prerequisite: Graduate standing, 3 Hours of Statistics, and HLTH 5371.

HLTH 6373. Leading Change in Health Care Organizations. 3 Hours.
Students focus on advanced theoretical concepts and applications in the areas of leadership, organizational development, team building, change management, and the particular challenges involved with leading change in health care organizations. The effects of the culture of change initiatives are examined as well as approaches to motivating organizations to create more openness to the capacity of change through competent leadership.
Prerequisite: Graduate Standing.

HLTH 6384. Health Quality & Safety Capstone. 3 Hours.
This culminating course is designed to integrate all of the contextual material from the coursework included in the MS in Health Care Quality and Safety program. Emphasis is placed on the assimilation and application of health information, organizational processes, continuous improvement constructs, and operational and patient safety strategies. This course includes a student capstone project that focuses on assessment, planning, and evaluation about an emerging healthcare quality and safety issue. HLTH 6384 serves as the comprehensive exam component for the MS in Health Care Quality and Safety Degree. Students must earn a "B" or higher in the course to be eligible for graduation.
Prerequisite: Graduate standing, admission to the program, completion of HLTH 5355, HLTH 5371, HLTH 5373, HLTH 5378, HLTH 5384, and HLTH 6373.

HLTH 6396. Health Program Planning/ Pre-Capstone. 3 Hours.
Students engage in a comprehensive review of the components of health program planning with emphasis on the socio-economical, cultural, and political factors that influence the health status of a community. Emphasis is focused on a comprehensive approach to health program planning and behavior change models.

HLTH 6397. Public Health Capstone / Practicum. 3 Hours.
Students engage in a professional field experience conducted in an approved setting for health education within the medical community, workplace or school setting. The 300 hour practicum is facilitated under the supervision of a qualified health educator or approved preceptor. HLTH 6397 serves as a comprehensive exam component for the MPH program. Students must earn a "B" or higher in the course to be eligible for graduation.

Higher Education (HIED)

HIED 5088. Special Topics in Higher Education. 3 Hours.

HIED 5089. Independent Study in Higher Education. 1-3 Hours.

HIED 5360. History and Organization of Higher Education. 3 Hours.
Students study organizational and administrative roles in higher education. Through collaboration, research, and independent inquiry, candidates examine organizational and administrative roles in higher education. Executive leadership issues in higher education are explored with a focus on conceptual content that prepares students for mid-level administration and management of higher education. Course Equivalents: EDAD 5360 .

HIED 5361. Contemporary Issues in Higher Education. 3 Hours.
Students study contemporary issues in higher education which includes information concerning the current generation of college students and how they develop while they are in college. Additionally, the impact of technology on students, faculty, and society are examined. Candidates demonstrate an understanding of the theoretical basis for key issues facing higher education in a rapidly changing society. Course Equivalents: EDAD 5361 .

HIED 5362. Higher Education Resource Management. 3 Hours.
Students develop knowledge and skills in both resource development and allocation based on institutional mission and planning. Human, physical and financial resources are examined in the context of planning, programming, budgeting systems, evaluation of outcomes, and institutional needs. Course Equivalents: EDAD 5362 .

HIED 5363. Information Technology in Higher Education. 3 Hours.
This course provides the higher education administrator with a systems approach to Enterprise Resource Management (ERP) and emerging technologies in education to enhance assessments, strategic planning, continuous improvement, and academic partnerships. Course Equivalents: EDAD 5363 .

HIED 5364. Leadership in Education. 3 Hours.
Students examine leadership theories, models, and processes with emphasis on the knowledge and skills necessary as 21st century leaders in higher education administration. Current leadership theory are applied to emerging issues in higher education administration. Course Equivalents: EDAD 5364 .

HIED 5365. Academic Affairs in Higher Education. 3 Hours.
Students study the factors that influence the development of instruction and curriculum in higher education. Policies and procedures for designing, implementing, and evaluating curriculum at the college level are examined. Candidates examine accreditation trends, issues, and problems in higher education administration. Curriculum theory and design, practices in goal setting, planning, and instructional improvement, are emphasized.

HIED 5366. Assessment in Higher Education. 3 Hours.
Students explore the philosophy, technique, and application of assessment in higher education settings. Students engage in guided development of an assessment project, exploring methods of assessment and means of advocating for evidence based change.
Prerequisite: HIED 5379 or EDAD 5379.

HIED 5367. Diverse Student Populations. 3 Hours.
Graduate students explore current demographic trends in higher education student populations. Additional study into student development theory is made to further refine higher education administrators' understanding of how a variety of students grow and develop in higher education.
Prerequisite: Admission in to the Master of Arts in Higher Education Administration.

HIED 5370. Career Advising in Higher Education. 3 Hours.
Students address a wide range of career advising tools, theories, and assessments available in advising students in higher education. Students examine the fundamental theories of career advising, advising on major selection, and gain familiarity with advising resources.

HIED 5378. Legal Issues in Higher Education Administration. 3 Hours.
Students examine contemporary legal issues and concepts that influence higher education. Students explore how various types of higher education institutions engage constituents and judicial systems. Specific attention is given to constitutional, contractual, tort, statutory, common law foundations, and frameworks.

HIED 5379. Research in Higher Education. 3 Hours.
Students focus on reviews of literature, research design, quantitative and qualitative methods, and sources of higher education research. Specific attention is paid to using scholarships to create or improve higher education programs, curriculum, or policies.

HIED 5387. Independent Study. 3 Hours.
Master of Arts students are provided an opportunity to engage in a detailed field study of a program or problem in higher education administration. The student works under the supervision of a graduate faculty member and will be expected to produce a summative written product or presentation.

HIED 5390. Concepts in Academic Advising. 3 Hours.
Students are provided an overview of the concepts of academic advising as essential components of student success and retention programs in higher education. This course prepares and equips academic advisors for leadership in the area of student success. Course Equivalents: EDAD 5390 .

HIED 6360. Student Services In Higher Education. 3 Hours.
Students are provided in-depth content regarding the practice of student services/student affairs in Higher Education. Theoretical foundations, competencies needed for successful student personnel work, and current issues and problems in student services are addressed. Students are provided a structural framework for the student services organization as it complements academics in institutions of higher education. Course Equivalents: COUN 6360 .

HIED 6371. Fundamentals of Data Management. 3 Hours.
Students develop the skills necessary to effectively manage institutional data. Technological aspects of data management, data transformation and manipulation, storage, confidentiality and anonymity, Institutional Review Board procedures and data sharing agreements are addressed.

HIED 6372. Practicum in Higher Education. 3 Hours.
Students are provided a field practicum for students seeking a position working in administration at a college or university. This course is the last course to be taken in the sequence of courses and may be taken with one to two other courses.

HIED 6374. Statistics for Institution Research. 3 Hours.
Students are provided an overview of the most frequently used statistical methods in higher education assessment and institutional research. An emphasis is placed on the use of data and statistical methods to inform institutional decision making.
Prerequisite: HIED 6371.

HIED 6387. Thesis. 3 Hours.
Students work under faculty supervision on a sustained research project to produce a thesis in the field of higher education. Project topics vary based on student interests and the faculty advisor's research expertise. Students gain hands-on experience in conducting research and writing scholarly reports.
Prerequisite: Approval of the program coordinator.

Higher Education Leadership (HEDL)

HEDL 7088. Special Topics in Higher Education. 1-3 Hours.
Course Equivalents: HIED 7088 .

HEDL 7089. Independent Study in Higher Education. 1-3 Hours.
Course Equivalents: HIED 7089 .

HEDL 7110. Doctoral Studies in Higher Education. 1 Hour.
Students explore studies in higher education leadership, topics of current interest, and information regarding areas of study and research related to the doctoral program. Will be repeated for a total of three credits with different topics.

HEDL 7332. Administration of Higher Education. 3 Hours.
Students apply organizational theories to administration applications in higher education administration. Drawing upon leadership theory, organization theory, administrative theory, psychology, sociology, and educational leadership, a variety of topics are applied to higher education settings.

HEDL 7335. Advanced Writing Seminar: The Literature Review. 3 Hours.
Students integrate the concepts of research synthesis, analysis, and effective writing techniques in the development of a comprehensive literature review for a dissertation.
Prerequisite: EDLD 7337.

HEDL 7361. Assessment and Evaluation in Higher Education. 3 Hours.
Students examine the process of collecting, analyzing, and using data for evidence-based change in higher education. They then, apply theories of assessment and evidence use to develop and recommend plans for change and improvement.

HEDL 7370. Higher Education Policy and Governance. 3 Hours.
Students examine the common governance structures and policies in community colleges and universities. Topics may include organizational structures, policies, and ethics that impact higher education leadership decisions. Students conduct an analysis of shared governance, academic freedom, and situations commonly faced by higher education leaders.

HEDL 7372. Diversity and Culture in Higher Education. 3 Hours.
Students examine demographic trends in higher education student populations and a variety of cultural, linguistic, social, and political perspectives within higher education. Students in this course will apply identity development theory to enhance the institutions' capacity to educate all students.

HEDL 7373. History of American Higher Education Systems. 3 Hours.
This course is designed to teach doctoral students the historical and contemporary role of the American college and university system. The course covers the establishment of the community college as a unique American idea that has become a major component in the postsecondary milieu. The course also focuses on historical, current and emerging issues in the American college setting and the university system. Course Equivalents: EDLD 7373 .

HEDL 7374. The College Student. 3 Hours.
Students are provided with a foundation in student development, which includes information concerning the current generations of college students and how they develop while they are in college. Students also develop an understanding of the theoretical bases for student development and are able to identify the role of student development/services/affairs in developing college students. Course Equivalents: EDLD 7374, HIED 7374 .

HEDL 7375. Higher Education Finance. 3 Hours.
Students are provided a comprehensive overview of higher education funding and financing. Specific details of how a budget is built, sources of revenue, objects of expenditures, and planning are covered in the course. Students learn relevant terms, how to plan, build and implement an institution-wide budget. The course is intended to prepare students for leadership positions in higher education by providing a better understanding of financial, budgetary, and planning issues in public post-secondary education. Course Equivalents: EDLD 7375, HIED 7375 .

HEDL 7376. Teaching & Learning in HiEd. 3 Hours.
Students identify and analyze contemporary issues in community college curriculum, including academic, workforce, tech prep, and dual credit. Course Equivalents: EDLD 7376, HIED 7376 .

HEDL 7377. Leadership of Higher Education Institutions. 3 Hours.
Students are introduced to an array of theoretical and practical orientations to leadership in the community college. The course content addresses current and emerging issues of leadership, administration, and management in the community college. Students become familiar with leadership theories and how to apply to them to a dynamic, multicultural, multi-ethnic educational environment. Course Equivalents: EDLD 7377, HIED 7377 .

HEDL 7378. Legal Issues in Higher Education. 3 Hours.
Students are provided an overview of the organization, governance, and administration of higher education. Students learn to analyze the elements that define colleges, describe models to explain how colleges are organized and managed; and integrate these models with administrative views to influence organizational processes, to include the communication of current issues to other personnel. The course focuses on legal issues that affect the governance of higher education. Course Equivalents: EDLD 7378, HIED 7378 .

HEDL 7387. Independent Study. 3 Hours.
Doctoral students are provided an opportunity to engage in a detailed and in-depth field study of a program or problem in higher education administration. The student works under the supervision of a doctoral faculty member and will be expected to produce a summative written product or presentation. Course Equivalents: HIED 7387 .

HEDL 8033. Dissertation. 1-6 Hours.
Students prepare an approved dissertation that will contribute to Higher Education Leadership. Minimum of 9 hours total required. Variable Credit (1 to 3).
Prerequisite: Completion of required leadership and research coursework and successful completion of comprehensive exam.

History (HIST)

HIST 5097. Independent Study. 1-3 Hours.
Students examine topics not specifically provided in any of the formal courses. Variable Credit (1-3). Course Equivalents: HIST 5397
Prerequisite: Consent of History Department Chair.

HIST 5098. Special Topic. 1-3 Hours.
Students examine topics not addressed in the current curriculum. Variable Credit (1-3).
Prerequisite: Department Approval.

HIST 5301. Methods in History. 3 Hours.
Students hone their research and writing skills needed for the M.A. in History degree. Students assess the various methodological approaches used by professional historians and learn how to conduct original research, engage in historiographical conversations, and communicate their research findings to a larger public. A. in History or departmental approval.
Prerequisite: Admission to the M.

HIST 5307. Intellectual History. 3 Hours.
Students examine major themes in intellectual history. Topics include the dynamics and statics of global philosophical traditions as realized in specific locales since the classical periods. Students discuss key texts in a seminar format.
Prerequisite: Graduate standing.

HIST 5320. Mesoamerican Civilizations. 3 Hours.
Students examine the origins, growth, and organizational and cultural features of the great New World civilizations of the region, including human inhabitation, nascent agriculture, and the emergence of early complex societies. Students examine native civilizations such as the Aztec, Maya, and Zapotec and assess the role of evidence and theory in conceptualizing the past.
Prerequisite: Graduate standing.

HIST 5321. American Immigration History. 3 Hours.
Students study immigration and ethnicity in America. Using a readings-seminar format, students analyze the settlement of North America from colonization to the recent past using the analytical frameworks of race, class, gender, nation, and ethnicity. Topics covered may include immigration policy; border policing; war and migration; women immigrants; and questions of citizenship and belonging, national and cultural identity, power and privilege.
Prerequisite: Graduate standing.

HIST 5322. Debates in Global Migration. 3 Hours.
Students address the major historiographical arguments that have driven the historians of migration, both around the world and in the United States. Students examine how population movements over time have raised crucial questions about the place of empire, nation-state, citizenship, racial formation, borders and boundaries, the role of women, neoliberalism, and globalization. The course also challenges students to consider representation and sources in migration history. Students engage with twentieth and twenty-first century scholarship that has shaped historians' understandings of and debates about migration.
Prerequisite: Graduate standing.

HIST 5333. Pre-Modern World History. 3 Hours.
Students examine major historical developments in the world prior to the sixteenth century. Topics may include war in the ancient world, comparative world religions, and Islamic civilization. Readings include important primary sources as well as secondary works.
Prerequisite: Graduate Standing.

HIST 5336. Pre-Modern European History. 3 Hours.
Students examine major historical developments in Europe prior to the sixteenth century. Topics may include Early Medieval Europe 300-1000; the Roman Empire; and Europe in the Era of Crusades, 1000-1500. Readings include important primary sources as well as secondary works.
Prerequisite: Graduate standing.

HIST 5338. Empires in World History. 3 Hours.
Students examine the role of empires in early modern world history and focus on the experience and interactions of empires from 1400 to 1800. Topics include the events, strategies, and policies that determined the ability of the empires of the early modern period to respond to challenges, such as political or geographic. Military as well as social and economic developments will receive attention in discussions of success and failure of the empires.
Prerequisite: Graduate standing.

HIST 5340. Recent African-American History. 3 Hours.
Students examine the African-American experience in United States history since the end of the Civil War. Topics include Reconstruction, Jim Crow segregation, national political leadership and intellectual thought, the Great Migrations, World War I, the "New Negro" and Harlem Renaissance, the labor movement, the Great Depression and World War II, and the modern Civil Rights Movement.
Prerequisite: Graduate standing.

HIST 5342. The Japanese Colonial Empire. 3 Hours.
Students examine the history of Japanese imperialism and colonialism in Asia from the late nineteenth century until the end of World War II. Topics may include settler colonialism in Korea, Taiwan, and Manchuria, Japan's militarization, fascist ideology, the Pacific Theater of World War II, and war trials.
Prerequisite: Graduate standing.

HIST 5351. Early Medieval Europe. 3 Hours.
Students examine Europe during the so-called "Dark Ages" (300-1000), a period of dynamic transformation as the Roman Empire ended, Christian, classical and warrior cultures interfaced, and the search for order met great challenges.
Prerequisite: Graduate standing.

HIST 5352. High and Late Medieval Europe. 3 Hours.
Students examine Europe across a period (1000-1500) characterized initially by growth and prosperity, diverse religious movements, towering urban constructions, and the Crusades and later by plague and peasant uprisings, which generated social unrest.
Prerequisite: Graduate standing.

HIST 5353. Legacies of the Reformations. 3 Hours.
Students examine the sixteenth-century Protestant and Catholic Reformations and their effects on religion, society, politics, culture, and the economy. Particular attention will be given to the competing interpretations of their long-term historical significance.
Prerequisite: Graduate standing.

HIST 5355. Holocaust & Genocide. 3 Hours.
Students examine various aspects of the Holocaust of European Jews by Nazi Germany and its allies during the Second World War (1939-1945). With particular attention to the years 1941 to 1943, students focus on different aspects of that genocide and may compare it with other episodes of mass killing in modern history. Numerous primary sources and victim and perpetrator perspectives will be incorporated.
Prerequisite: Graduate standing.

HIST 5359. The Audible Past. 3 Hours.
Students examine the meaning and significance of sound, music, and noise in culture and analyze how sound technologies shape, and are shaped by, the values of the cultures that produced them. Students apply the tools of historical analysis to primary sources in the form of recorded sound.
Prerequisite: Graduate standing.

HIST 5360. African Environmental History. 3 Hours.
Students examine the local and external forces that have influenced African environmental history from the mid-nineteenth century to the present. Students discuss methodological approaches, key themes, and debates in the historiography. Topics may include disease, conservationist ideologies (African and Western), demography, climate change, and the relationship between capitalistic economies (colonial and post-colonial) and environmental change in Africa.
Prerequisite: Graduate standing.

HIST 5362. Seminar in American Environmental History. 3 Hours.
Students examine the complex relationship between nature and society in U.S. history. Topics may include economics; land-use patterns and natural ecosystems; and dramatic changes in natural and human communities that have engendered strong social and political responses.
Prerequisite: Graduate standing.

HIST 5363. Seminar In Military History. 3 Hours.
Students examine selected topics in the history of war and violence. Topics may include war and the environment; the experience of combat for soldiers; civilians and societies at war; transitions to peace; and war in memory.
Prerequisite: Graduate standing.

HIST 5364. Seminar in War & Violence. 3 Hours.
Students examine how societies experience military conflict and remember war. Students compare the national memories of war with historical realities, interpret how societal images of war change over time, and appraise how these factors influence society itself.
Prerequisite: Graduate standing.

HIST 5365. Film and War in America. 3 Hours.
Students examine how film has altered the perception of warfare in the United States over the last century. Upon completion, students are able to compare the various views of war presented. Students examine the filmography to demonstrate how perceptions changed over time due to the influence of politics, patriotism, and warfare itself.
Prerequisite: Graduate standing.

HIST 5366. The Reconstruction Era. 3 Hours.
Students examine the social, cultural, political, and military histories of Reconstruction after the U.S. Civil War. Topics may include the experience of military occupation, African American political activism, violence and terrorism, the retreat from Reconstruction, and sectional reconciliation.
Prerequisite: Graduate standing.

HIST 5367. World War II. 3 Hours.
Students examine various aspects of the Second World War (1939-1945). Topics may include the military history of combat zones, the cultural and social history of the war, politics and strategy, technological developments, and economic change. Students evaluate various scholarly interpretations around the topic.
Prerequisite: Graduate standing.

HIST 5368. Britain's Modern Wars, 1899 to the Present. 3 Hours.
Students examine how the waging of colonial, European, and postcolonial wars shaped British national identity and collective memory in the twentieth century. Topics include the World Wars I II, the Boer War, Irish Independence and the Northern Ireland Troubles, and the dirty wars at the end of empire. Students may explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5369. Violence and the State in East Asia. 3 Hours.
Students examine the social, cultural, and political effects of warfare and social violence on East Asian societies during the twentieth century. Topics may include the rise of warlordism, secret societies in East Asia, the Sino-Japanese War, and violence in the Cultural Revolution.
Prerequisite: Graduate Standing.

HIST 5370. Colonial America. 3 Hours.
Students examine the issues, peoples, and perspectives that shaped Colonial America. Topics may include the exploration, settlement, and maturation of the North American colonies.
Prerequisite: Graduate standing.

HIST 5371. Revolutionary America. 3 Hours.
Students examine the era of the American Revolution by surveying recent historical interpretations of the period. Topics may include the cause, conduct, and consequences of the American Revolution and the conflict in comparative perspective.
Prerequisite: Graduate standing.

HIST 5372. Early National America. 3 Hours.
Students examine the development of the United States from 1783 to 1840; the failure of the Confederation; organization of government under the Constitution; the Federalist period; Jeffersonian democracy; the War of 1812; national growth in the post-war period; political and economic change; the party structure; the rise of Jackson; and social reform.
Prerequisite: Graduate standing.

HIST 5373. United States Civil War. 3 Hours.
Students examine selected topics in the political, military, economic, and social institutions of the United States during the Civil War era. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5374. Seminar in the History of the American South. 3 Hours.
Students examines the diverse history, peoples, and cultures that have occupied the US South. Topics vary by semester; and may include economic and political history; religion, race, literature; the Civil Rights movement; and women's experiences.
Prerequisite: Graduate standing.

HIST 5375. Recent America, 1876-1933. 3 Hours.
Students examine the social, economic, cultural, diplomatic and political developments of late-nineteenth and twentieth century America. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5376. Contemporary America, 1933-Present. 3 Hours.
Students examine United States history since 1933. Topics may include the Great Depression, the New Deal, the Cold War, the Vietnam War, the Civil Rights Movement, the Feminist Movement, Watergate, the Iranian Hostage crisis, the Reagan era, the end of the Cold War, and the roots of 9/11. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5377. The American West. 3 Hours.
Students examine the U.S. West as a region with a strong emphasis on the nineteenth century. The course content covers the interpretive development of the field as it has progressed from a traditional focus on Anglo expansion to a more balanced view that embraces race, gender, and the workaday West. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5378. American Cultural and Religious History. 3 Hours.
Students explore topics in the cultural and religious history of the people of North America. The course focuses on the patterns of belief and values held by men and women, which have shaped each major period from colonial times to the present. Course Equivalents: HIST 5361
Prerequisite: Graduate standing.

HIST 5380. American Historiography. 3 Hours.
Students explore the complex nature of historical practice and the development of past and current fields within the discipline. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5381. World Historiography. 3 Hours.
Students engage in an in-depth examination of the interdisciplinary methodologies of the New World History. Students investigate the writing of world history as a projection of power and dominance in the era of global imperialism and colonialism; non-Eurocentric explanations for the "rise of the West"; and the latest scholarly efforts to construct a non-privileging world history.
Prerequisite: Graduate standing.

HIST 5382. Topics In the History Of Women. 3 Hours.
Students examine the experiences of women of diverse cultural, racial, and ethnic backgrounds, including women's responses to social forces during critical periods in their history. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5383. United States Diplomatic History. 3 Hours.
Students examine the development of United States foreign policy from 1775 to the present. Topics may include diplomacy of the Revolutionary era; the Early Republic; Manifest Destiny; the Civil War era; Imperialism and Expansion; the Great Crusade and after; World War II; and the Cold War. The emphasis is on the forces that have influenced diplomacy and on the changing interpretations of United States foreign policy. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5384. Texas History. 3 Hours.
Students examine major themes in Texas history. Topics may include indigenous peoples, Spanish colonization, the Mexican era, Anglo- and African-American settlement, the Revolution and Republic period, statehood, the Civil War and Reconstruction, the cattle kingdom, the oil industry, and political and economic modernization. The course may be conducted as either a research or reading seminar. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5385. Latin American History. 3 Hours.
Students explore the history of Latin America. The topics for this course vary from semester to semester among the diplomatic, political, social, and intellectual histories of Mexico, the Caribbean, the Anglo-Spanish borderlands, or South America. Students explore major recent historical interpretations and/or conduct research in primary sources. .
Prerequisite: Graduate standing.

HIST 5386. African American Civil Rights. 3 Hours.
Students examine the African-American civil rights movement in the United States and discuss the origins, evolution, and continuation of the movement. Topics may include Jim Crow segregation, lynching, the establishment of the NAACP, school desegregation, the origins and evolution of Black Power, and mass incarceration.
Prerequisite: Graduate standing.

HIST 5388. Public History. 3 Hours.
Students examine various aspects of public history. Topics may include historic preservation, museum studies, living history interpretation, archival arrangement and description, grant writing, and news media. Student projects vary by semester.
Prerequisite: Graduate standing.

HIST 5389. Great Britain and the British Empire. 3 Hours.
Students examine major themes in British history. Topics may include British religious, political, social, cultural, economic and imperial histories. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5390. China in Revolution. 3 Hours.
Students examine the patterns and contradictions of the social and political revolutions in the making of modern China. They focus on how issues related to the economy, ethnicity, gender, and cultural production shaped Chinese politics and society from the collapse of the Qing dynasty in 1911 until Mao's death in 1976. Topics include the formative years of the Chinese Communist Party, the Chinese Civil War, the consolidation of the People's Republic of China, the Great Famine, and the Cultural Revolution.
Prerequisite: Graduate standing.

HIST 5392. The Ottoman Empire, 1300-1922. 3 Hours.
Students survey the history of the Ottoman Empire to provide a comprehensive outlook on the diverse political and social traditions of the Islamic world. The course explores the numerous historical threads that eventually composed the fabric of societies and states in the modern Middle East. Focusing on the political and ideological history of the Ottoman Empire, this course pays attention to empire formation in the early modern era, European imperialism, modernization, and nation-building.
Prerequisite: Graduate standing.

HIST 5393. European Diplomatic History. 3 Hours.
Students examine selected topics in the history of European international politics from the eighteenth through the twentieth century. Alternate emphasis may be placed on Eastern and Western Europe as well as on different eras of diplomacy. Students may explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5394. Early Modern Europe. 3 Hours.
Students examine the fifteenth through eighteenth centuries and consider how the foundations for Modern Europe were established amid the dynamic, if not wrenching, transformation from a medieval way of life characterized by religious concerns, kingdoms, a predominately agrarian economy, and a rigid social order, to a modern one marked by science and secularism, sovereign states, a commercialized and industrializing capitalist economy, and a more socially diverse and mobile world. Students explore major recent historical interpretations and/or conduct research in primary sources.
Prerequisite: Graduate standing.

HIST 5395. Later Modern Europe. 3 Hours.
Students explore selected topics in Later Modern European History. Students examine major recent historical interpretations as well as conduct research in primary sources. .
Prerequisite: Graduate standing.

HIST 5396. Cross-Cultural Interactions. 3 Hours.
Students engage in an advanced, interdisciplinary investigation of the historiography of cross-cultural encounters and exchanges. Students examine the historiography of three specific case studies: the ancient Silk Roads, the trans-Eurasian Mongol Empire, and the trans-Atlantic Columbian Exchange.
Prerequisite: Graduate standing.

HIST 6098. Thesis I. 1-3 Hours.
Students engage in the research and writing of their thesis. Variable credit (1-3.) Course Equivalents: HIST 6398 .

HIST 6099. Thesis II. 1-3 Hours.
Students complete and successfully defend their thesis. Variable credit (1-3.) Course Equivalents: HIST 6399 .

HIST 6394. Seminar in History. 3 Hours.
Students develop skills in locating, extracting, evaluating, and synthesizing historical information and writing an article-length paper based on primary sources.
Prerequisite: Graduate standing.

Horn (HORN)

HORN 5201. Individual Performances-French Horn. 2 Hours.
The course consists of advanced individualized instruction on the French horn. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.

Human Sciences (HUSC)

HUSC 5087. Independent Study. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. This course will examine special topics in the field of Human Sciences. Variable Credit (1-3). Course Equivalents: FACS 5087, FACS 5387 .

HUSC 5097. Special Topics in Human Sciences. 3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. / This course will examine special topics in the field of Human Sciences. Course Equivalents: FACS 5097 .

HUSC 5323. Interiors & Aging Population. 3 Hours.
This course provides an in-depth study of how interior environments affect the aging population, primarily focusing on housing issues and options. Emphasis is on policy, needs assessment, finances, and physical design. Course Equivalents: FACS 5323
Prerequisite: Graduate Standing.

HUSC 5330. Seminar in Human Science Research. 3 Hours.
A course designed to acquaint graduate students with the need for and contribution of research. Criteria are developed for designing and completing research. Course Equivalents: FACS 5330 .

HUSC 5375. Seminar in Recent Developments in Human Science. 3 Hours.
A critical analysis of current trends, issues, and problems in Human Sciences. Course may be repeated for credit. Course Equivalents: FACS 5375 .

HUSC 5380. Aging Population Needs. 3 Hours.
This course is focused on the broad principles of human sciences and effects of interior environments, food and nutrition, fashion, apparel and textiles related to an aging population. Course Equivalents: FACS 5380 .

HUSC 6098. Thesis I. 1-3 Hours.
This phase of the thesis investigation includes the completion of the review of the related literature, formulation of the research design and procedures, and related pilot studies. Some data collection may also occur, and the thesis symposium must be completed to the satisfaction of the advisor and members of the thesis committee. Variable Credit (1-3). Course Equivalents: FACS 6098, 6398 .

HUSC 6099. Thesis II. 1-3 Hours.
This phase of the thesis includes the completion of the data collection, as well as the actual writing and defense of the thesis. Variable Credit (1-3). Course Equivalents: DIET 6099, FACS 6099, FACS 6399 .

Industrial Education (INED)

INED 5310. Advanced Human Relations in Career Technical Education (CTE). 3 Hours.
This course is designed to meet the needs of the competent tradesman in understanding and working with students. Parallel course to INED 4310.

INED 5365. Advanced Teaching in CTE Industry. 3 Hours.
Success in most professional areas is dependent in part on the ability of an individual to communicate effectively with others. An inventory of media used in communications will be made. Various means and equipment for aiding the communication of ideas will be studied and evaluated.

INED 5379. Instruction/Product Analysis. 3 Hours.
This course is a study of the inventory and analysis procedure by which the essential elements of an occupation or production scheduling activity are identified and listed for instruction or production purposes. The analysis determines the instructional or production format necessary for a smooth and orderly process from the simple to the complex order of tasks, operation and jobs required in the industrial environment.

INED 5382. Managing CTE Work Programs. 3 Hours.
Techniques for identifying students for vocational training; sources and means of job placement for co-operative part-time students and graduates of vocational programs; and methods of making student follow-up studies are included.

INED 5386. CTE Instructional Technology. 3 Hours.
This course is designed to aid teachers of industrial subjects in the design and construction of teaching aids. The study of multi-media is an integral and important phase of this course.

INED 5391. Lab Organization & Management. 3 Hours.
This course is designed for graduates who are going to teach Industrial Education or manage equipment and supplies in industry. It is to prepare students to successfully manage laboratory activities, organize laboratories in accordance with contemporary concepts, and to control materials/ supplies within their laboratories. Parallel course to INED 4391.

Instructional Leadership (INSL)

INSL 5088. Special Topics in Instructional Leadership. 1-3 Hours.
This course offers graduate students the option of registering for a multi-topic course. The student can take the course under various special topics being offered. Variable Credit 1-3. Course Equivalents: EDAD 5387 .

INSL 5089. Independent Study in Instructional Leadership. 1-3 Hours.

INSL 5378. Curriculum Planning. 3 Hours.
Students study the various factors which influence curriculum change; the role and responsibilities of different personnel and agencies in curriculum planning; procedures in implementing curriculum change; and current programs in public school curriculum K-12. Course Equivalents: EDAD 5378 .

INSL 5379. Methods of Research. 3 Hours.
Students study types and methods of educational research, the collecting, analyzing and sharing of data with the public. The student is expected to complete a research project or field study utilizing appropriate methods of educational research. Course Equivalents: EDAD 5379 .

INSL 6360. Learning Theory of Educational Leadership. 3 Hours.
Students study the principles of psychology as they apply to learning and teaching. Pertinent research is studied in an attempt to find ways to make instruction more effective. Course Equivalents: EDAD 6360 .

INSL 6368. Instructional Supervision. 3 Hours.
Students focus on leadership for the improvement of instruction, including current research on school and teaching effectiveness. Course Equivalents: EDAD 6368 .

INSL 6372. Practicum in Instructional Leadership. 3 Hours.
Students are provided a field practicum for students seeking a position as an instructional supervisor. The course designed to provide intensive study of the field of instructional leadership. Last course to be taken in the sequence of courses. May be taken with one to two other courses. Course Equivalents: EDAD 7361 .

INSL 6390. Evaluation for Instructional Leaders. 3 Hours.
Graduate students in Instructional Leadership gain a comprehensive knowledge of different types and forms of evaluation and their application to educational improvement. In addition, students learn how to analyze data from a variety of forms of assessments to inform instructional decisions. This course includes a comprehensive study of the design, validity/reliability, bias, and use of assessment instruments often associated with educational improvement.

Instructional Systems Design Technology (ISDT)

ISDT 5088. Special Topics in Instructional Technology. 1-3 Hours.
This course presents the instructional, technical and management issues evident in instruction and learning offered via distance delivery systems. Various delivery systems and technology tools within those systems will be studied and critiqued to evaluate the effectiveness of each. The course highlights effective online course design and delivery with an attention to the learning resources and strategies evident in successful online teaching and learning. Variable Credit (1 to 3).

ISDT 5319. Critical Analysis of Instructional Software. 3 Hours.
Students examine commercial and open software designed for instructional use and apply instructional theories in analyzing the software's effectiveness in learning. Course Equivalents: CSTE 5319 .

ISDT 5336. Educational Multimedia. 3 Hours.
Students explore the use of learning technologies to extend the instructional leader's skill base in the development of appropriate digital learning examples to support and enhance instructional practices. Throughout the course, students gain experience in digital editing, audio and animation production, authoring tools, and immersive technologies. Course Equivalents: CSTE 5336
Prerequisite: Graduate standing.

ISDT 5337. Designing Instructional Material for the Web. 3 Hours.
Students explore the systematic design of authentic learning experiences supported by 21st-century technology. Course Equivalents: CSTE 5337 .

ISDT 5338. Development of Technology Infrastructre in Schools. 3 Hours.
This course examines the funding, design and implementation processes required to establish and realize a coherent technology acquisition and management strategy. Course Equivalents: CSTE 5338 .

ISDT 5363. The Role of Technology Liaison. 3 Hours.
This course is designed to assist the technology liaison in learning how to facilitate subject matter experts throughout the instructional process supported by technology. Attention is given to the foundation of social, ethical, legal, and human issues of technology in any work setting. Course Equivalents: CIED 5363 .

ISDT 5365. Technology And Cognition. 3 Hours.
Students examine the symbiotic relationships between technology and cognition. Students design technology-rich instructional activities that provide different means of learner engagement, representation, action, and expression. Course Equivalents: CIED 5365 .

ISDT 5367. Readings and Trends In Instructional Technology. 3 Hours.
Candidates are acquainted with the critical writings and ideas of prominent practitioners, researchers, and theorists in instructional technology with a focus on understanding the trends and issues pertaining to a scholarly study of integrating technology into teaching and learning. Candidates evaluate the best instructional technology strategies evident in the literature and in practice in PK-16 education and industry settings. Course Equivalents: CIED 5367 .

ISDT 5369. Practicum-Technology Facilitation. 3 Hours.
Students are provided with a field-based practicum, including a study of the daily duties and responsibilities of a technology facilitator. Course Equivalents: CIED 5369 .

ISDT 6335. Management Application Analysis I. 3 Hours.
Students apply systematic and rational approaches to the analysis, evaluation of course management systems from the perspective of pedagogical success and user friendliness.

ISDT 6351. Distance Learning I. 3 Hours.
Students explore the instructional, technical, and management issues in distance education delivery systems. Effective online course design and delivery of teaching and learning resources and strategies are examined.

ISDT 6389. Independent Study. 3 Hours.
Students study individually chosen topics under the supervision of a faculty member. The specific topic is selected from current trends and future research directions, not covered in the Instructional Systems and Design Technology (ISDT) graduate curriculum.
Prerequisite: Consent of instructor and approval of department chair.

ISDT 7315. Educational Network Design. 3 Hours.
Students examine the technical, environmental, and policy issues involved in the development of educational technology infrastructures, focusing on network design and evaluation. Course Equivalents: CSTE 7315 .

ISDT 7325. Technology Sustainability. 3 Hours.
Students examine the potential and the challenges associated with initiating and maintaining green and cost-efficient technology infrastructures based on environmental awareness initiatives.

ISDT 7335. Management Application Analysis. 3 Hours.
Students are provided a systematic and rational approach to the analysis, evaluation, and implementation of course management systems from the standpoints of pedagogical success, user friendliness, and cost effectiveness.

ISDT 7336. Instructional Design Assessment. 3 Hours.
Students apply instructional design theories to the development, analysis, evaluation, and assessment of various digital instructional designs.

ISDT 7350. Issues in Instructional Technology. 3 Hours.
Students examine current social, economic, and ethical issues surrounding the acquisition and implementation of technology in instruction. An emphasis is placed on the research of past, present, and future applications of technology in instruction, and applying theory to practice. Theoretical perspectives informing future research in instructional technology are also considered. Course Equivalents: CIED 7350
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7351. Distance Learning II. 3 Hours.
Students explore the instructional, technical, and management issues evident in instruction and learning offered via distance delivery systems. Various delivery systems and technology tools within those systems are studied and critiqued to evaluate their effectiveness. The course highlights effective online course design and delivery with an attention to the learning resources and strategies evident in successful online teaching and learning. Course Equivalents: CIED 7351 .

ISDT 7352. Instructional Planning. 3 Hours.
Student are provided with strategies to assist instructional personnel to plan and use digital-age tools. Course Equivalents: CIED 7352
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7353. Professional Development. 3 Hours.
Students identify technology development needs, research current practices, and design and implement a professional development sequence with support materials. Course Equivalents: CIED 7353
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7354. Leadership in Technology Administration. 3 Hours.
Students focus on decision-making for effective and efficient implementation of instructional and productivity technologies, to include consideration of policy, current research, emerging technologies, learning needs, and available resources. Course Equivalents: CIED 7354 .

ISDT 7355. Program Evaluation. 3 Hours.
Students evaluate professional learning programs that integrate technology effectively into instructional practices. Course Equivalents: CIED 7355
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7374. Qualitative Analysis. 3 Hours.
Students develop qualitative research skills by engaging in a substantial field-based instructional technology research project. Course Equivalents: CIED 7374
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7375. Multivariate Analysis and Learning Analytics. 3 Hours.
Students analyze multivariate data and educational big data related to the fields of instructional technology and learning analytics and interpret the results of the analyses. The analysis methods include advanced statistical approaches and computational techniques.
Prerequisite: ISDT 7372.

ISDT 7380. Instructional Technology Research Methods. 3 Hours.
Students focus on the research questions, approaches, and measures typically employed by instructional technology researchers.

ISDT 7385. Doctoral Internship. 3 Hours.
Under the leadership of a qualified mentor, students research, electronically document, and reflect on their study as they examine the future of technology, strategies for dynamic decision-making, effective and collaborative online communication, equitable access to technology resources for all learners, and community-based learning. At the conclusion of the 150-clock hour internship, students present an online documentary of their internship experiences. Course Equivalents: CIED 7385
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7386. Special Topics. 3 Hours.
Students study topic(s) that vary based on student-cohort career interests or needs and semester offered. The topics covered are related to Instructional Systems Design and Technology (ISDT) when topics of special interest from those covered elsewhere in the curriculum.

ISDT 7388. Doctoral Field Studies. 3 Hours.
Students independently administer an organizational instructional technology needs-analysis. Based on the identified needs of the organization, the student then plans, implements, assesses, and modifies an instructional leadership project/case study to address identified needs. Course Equivalents: CIED 7388
Prerequisite: Admission into the Ed.D. Instructional Technology program.

ISDT 7389. Independent Study. 3 Hours.
Students study individually chosen topics under the supervision of a faculty member. The specific topic is selected from current trends and future research directions, not covered in the Instructional Systems and Design Technology (ISDT) graduate curriculum.
Prerequisite: Consent of instructor and approval of department chair.

ISDT 7391. Application of Research. 3 Hours.
Students develop a dissertation proposal.
Prerequisite: 45 hours of coursework required for the Ed.D. Course Equivalents: CIED 7391 .

ISDT 8033. Dissertation. 1-6 Hours.
The culmination of doctoral study resulting in a dissertation that addresses key topics in Instructional Technology. An original investigation is planned, executed, and defended. Course Equivalents: CIED 8333, ISDT 8333
Prerequisite: Successful completion of the dissertation proposal defense.

Kinesiology (KINE)

KINE 5097. Special Topics in Kinesiology. 1-3 Hours.
Students will engage in a thorough investigation of current topics to increase their knowledge base in these areas. This course allows students to apply knowledge from previous course work to specific current issues and analyze the information to develop possible solutions or research gaps. Variable Credit (1-3).

KINE 5334. Sport and Human Performance Internship I. 3 Hours.
Students engage in an internship experience in a personal working environment or organizational setting. Students complete 200-contact hours of an internship experience, and it serves as the first half of a 400-contact hour internship for graduate students. Internship sites must be secured and approved prior to the semester starting. Supervisory assistance by project staff occurs at frequent intervals. Refer to the internship manual for expectations and guidelines.

KINE 5335. Sport and Human Performance Internship II. 3 Hours.
Students complete an additional 200 contact hours of an internship experience and that serves as the second half of the 400-contact hour internship for graduate students. This course allows students to either gain experience in a new setting or delve deeper into the experiences gained in KINE 5334. Students who desire to gain practical experience in the Sport and Human Performance degree track should select this course. Internship sites must be secured and approved prior to the semester starting. Refer to the internship manual for expectations and guidelines.
Prerequisite: Department Approval and Graduate Standing.

KINE 5367. Advanced Physiology of Exercise. 3 Hours.
Students explore advanced content reflecting the scientific principles underlying the physiology of exercise. Students are required to conduct an applied research project on a topic of their choice.
Prerequisite: Graduate Standing.

KINE 5368. Research in Sport and Human Performance. 3 Hours.
Students focus on current research trends in Sport and Human Performance (SHP). Research on a variety of current topics in the field are analyzed and discussed. In the course, students discuss media presentation and their application to the profession. Additionally, students develop and present a proposal for a research project.
Prerequisite: Graduate Standing.

KINE 5372. Youth Fitness. 3 Hours.
Students are provided with specific background and knowledge in how to appropriately plan programs geared to improving the fitness of youth. Central to this course is the development of an attitude that perceives youth fitness as a significant part of the school curriculum. Students are prepared to promote youth fitness in an effective and scientific manner.

KINE 5374. Applied Research Methods in Kinesiology. 3 Hours.
Students study research techniques, identification of problems, research designs and data gathering procedures. In addition, students develop a proposal for a research project.

KINE 5375. Statistical Design in Kinesiology. 3 Hours.
Students explore principles of advanced statistical techniques and measurement theory, with emphasis upon their application to Health, Kinesiology, and related areas.

KINE 5377. Independent Studies. 3 Hours.
This course is adaptable to the needs and interests of the individual student. Students with specific interests are provided the opportunity to investigate and make application in theoretical, laboratory, or field experience approaches to their area of concentration. A proposal is submitted to the faculty sponsor and the Chair of the Health and Kinesiology Graduate Committee the semester before the student plans to register for this course. A proposal is submitted to the faculty sponsor and the Chair of the Health and Kinesiology Graduate Committee the semester before the student plans to register for this course.
Prerequisite: KINE 5374.

KINE 5378. Applied Motor Development in Physical Education. 3 Hours.
Students focus on the principles that will enable graduate students to effectively apply motor development concepts to teaching, rehabilitation, and training. In addition, students apply current research and literature to the study of the changes of human motor behavior over the lifespan, the processes that underlie these changes, and the factors that affect them. This course emphasizes the administration, collection, and analysis of data in the motor domain.

KINE 5379. Management of Adult Fitness Programs. 3 Hours.
Students analyze factors associated with the management of commercial, corporate and hospital-based wellness programs. Special attention is given to the purpose, development, and maintenance of such programs.

KINE 5381. Clinical Exercise Physiology. 3 Hours.
Students are introduced to a detailed study of the human physiological responses to activity and exercise in the presence of chronic disease. Students are provided with fundamental knowledge of disease-specific pathology and treatment guidelines. Students are guided through the physiology associated with exercise testing and physical training of patients with chronic disease.
Prerequisite: Graduate standing.

KINE 5385. Biomechanics of Injury. 3 Hours.
Students examine the biomechanics of musculoskeletal injury. Specific topics to be addressed are the biomechanics of tissue and how biomechanical factors impact injuries to the lower-extremity, upper-extremity, and head, neck, and trunk.
Prerequisite: Graduate Standing .

KINE 5386. EKG/Cardiac Conditions. 3 Hours.
Students in this course develop an advanced understanding of cardiac anatomy and how electrical activity of the heart can be properly interpreted in order to detect abnormalities in the cardiovascular system. Emphasis is placed on identifying criteria for abnormal heart rhythms including conduction disturbances, and ventricular and supraventricular arrhythmias. Other topics to be addressed include systematic EKG interpretation techniques, myocardial ischemia and infarction, and the role of pharmacological agents and electrolytes on the EKG.
Prerequisite: Graduate Standing.

KINE 5387. Biomechanical Gait Analysis. 3 Hours.
Students conduct walking gait analysis from a biomechanical perspective. Students also focus on fundamental terminology, data collection, and data interpretation methods specific to walking gait analysis.
Prerequisite: Graduate standing or KINE 4362.

KINE 5388. Strength Training Principles. 3 Hours.
Students develop, instruct, and evaluate resistance training exercises and programs for diverse populations and settings. Students apply physiological and mechanical principles related to resistance training to study human performance, injury prevention, and rehabilitation.

KINE 5389. Sports in American Culture. 3 Hours.
Students explore North American sport from a viewpoint that sport is a microcosm of society. Social structures, sub-cultures, and ethics are explored.

KINE 5390. Exercise Science Lab Practicum. 3 Hours.
Students study advanced laboratory methods typically utilized in applied exercise science. The student gains understanding of equipment used for assessment and evaluation of persons with varying needs. A research project is a major component of this course.
Prerequisite: Graduate standing.

KINE 5391. Motor Control in Practice. 3 Hours.
Students identify principles of motor control with emphasis on the application of these principles to Sport and Human Performance (SHP). Students investigate how motor control affects everyday movement and performance, and review and synthesize current literature and present the findings to their peers. Prerequisite: Graduate Standing.
Prerequisite: Graduate Standing.

KINE 5393. Advanced Studies in Psychology of Sport. 3 Hours.
Students engage in an advanced study of the psychological factors that affect, and are influenced by, sports participation. Both the coach and the athlete are considered in this analysis.

KINE 5395. Advanced Biomechanics. 3 Hours.
Students study the mechanical analysis of motion as it applies to the human musculoskeletal system. The course stresses advanced concepts of functional anatomy, linear and angular kinetics and kinematics, and application of those concepts in a laboratory/research setting. Emphasis is placed on data collection and evaluation in a semester research project.
Prerequisite: Graduate Standing.

KINE 5396. Aerobic and Anaerobic Training. 3 Hours.
Students engage in a detailed study of training techniques for competitive athletes are presented. Evaluation of the competitive athlete, including test selection, administration, and integration into training programs, are presented, as well. Students learn to design effective training and conditioning programs based on the specific needs of the competitive athlete.
Prerequisite: Graduate standing.

KINE 5397. Current Issues in Kinesiology. 3 Hours.
Students study topics and specific issues germane to current concerns in the areas of Physical Education, health-related wellness, sport on the professional level, and interscholastic and intercollegiate athletics. Students are required to complete a research project requiring data collection and analysis.

KINE 5398. Significance of Motor Learning. 3 Hours.
Students are presented the theoretical and experimental bases for the understanding of human behavior in movement. Areas of study include feedback manipulation, motor programming, dynamic systems theory, generalizability of schema, forgetting, and compatibility analysis. Students are required to plan and conduct a research study testing a motor learning postulate of their own choosing.
Prerequisite: KINE 2363 or permission of instructor.

KINE 5399. Workshop in Kinesiology. 3 Hours.
Students engage in an intensive laboratory-oriented experience for practitioners seeking to upgrade teaching, coaching, or leadership competencies in areas related to Kinesiology, Coaching, and Athletics. May be repeated for credit with approval of the Kinesiology Graduate Coordinator.

KINE 6098. Sport and Human Performance Thesis I. 1-3 Hours.
This phase of the thesis investigation includes the completion of the review of the related literature, formulation of the research design and procedures and related pilot studies. Some data collection may also occur, and the thesis symposium must be completed to the satisfaction of the advisor and members of the thesis committee. Variable Credit (1-3). Course Equivalents: KINE 6398 .

KINE 6099. Sport and Human Performance Thesis II. 1-3 Hours.
This phase of the thesis includes the completion of the data collection, as well as the actual writing and defense of the thesis. Variable Credit (1 to 3). Course Equivalents: KINE 6399 .

Library Science for Sch Librns (LSSL)

LSSL 5087. Special Topics in Library Science. 1-3 Hours.
Students examine selected current topics in school libraries. Students are to encourage to make thoughtful, educated decisions related to the topics. Variable Credit (1-3).

LSSL 5088. Special Topics in School Libraries. 3 Hours.
This course will examine special topics in the field of School Librarianship. / This course is designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3.)

LSSL 5089. Independent Study in School Librarianship. 1-3 Hours.
This course will examine special topics in the field of School Librarianship. / This course is designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3.)

LSSL 5330. Collection Development. 3 Hours.
Students are introduced to principles of selection of library materials and procedures involved in building collections for school libraries, which includes latest technological developments, research theories, and site-based applications. Required for certification and MLS.

LSSL 5332. Organization of Collections I. 3 Hours.
Students are introduced to the principles of descriptive cataloging, classification, and subject analysis using the latest editions of the Resource Description and Access (RDA), the Dewey Decimal Classification, Library of Congress and Sears subject headings. Focus is placed on the broad-based use of the MARC format. Students are provided with an overview of various types of bibliographic control, technical services in libraries and processing centers, and commercial and shared cataloging utilities. Required for certification and MLS.

LSSL 5334. Information Services and Resources I. 3 Hours.
Students are introduced to skills, techniques, and the philosophy of the reference process with emphasis on the interview and strategies. Students examine and discuss basic reference tools using specific evaluative criteria as well as analyze library systems, networks, automated databases, the Internet, and other digital searching techniques. Required for certification and MLS.

LSSL 5337. School Library Administration. 3 Hours.
Students study planning, organizing, policymaking, staffing, budgeting, facilities planning, decision-making, and services. An emphasis is placed on the study of standards, trends, services, research, and evaluation of the library. Required for certification and MLS.
Prerequisite: LSSL 5330 and LSSL 5332.

LSSL 5360. Literature For Children. 3 Hours.
Students are acquainted with the selection, critical analysis, and historical development of literature for children. Emphasis is placed on selecting recreational and informational materials for children reflecting our multicultural society; identifying techniques, activities, and strategies that motivate children to read and respond to literature; and developing critical abilities for evaluating literature for children. Required for certification and MLS.

LSSL 5361. Current Trends in Materials for Children and Young Adults. 3 Hours.
Students examine recent trends in materials for children and young adults, with an emphasis placed on multicultural materials for children and young adults. Elective.
Prerequisite: LSSL 5360 and LSSL 5385.

LSSL 5363. Preschoolers and the Library. 3 Hours.
Graduate students are acquainted with the historical development, critical analysis, and selection of literature, and related materials appropriate for preschool children. An emphasis is placed on techniques, activities, and strategies that meet the reading and learning needs and interests of these children. Cooperation with public libraries and librarians, as well as other family literacy stakeholders, is a component of this course.

LSSL 5364. Information Services and Resources II. 3 Hours.
Students study reference materials and services on a specialized level and modes of searching, including online and laser optical techniques; develop expertise in solving reference problems through role playing, case studies, etc., and analyze the latest trends and research in reference methods and technology, (e.g., the Internet and networking). In addition, students cover grantsmanship and proposal writing to secure funding for information resources. Elective.
Prerequisite: LSSL 5330, LSSL 5334, and LSSL 5360.

LSSL 5366. Library Practicum/Intern. 3 Hours.
Students are provided with a supervised practice in a school library, which incorporates seminars, conferences, journals, and evaluation. Required for certification and MLS.
Prerequisite: LSSL 5330, LSSL 5332, LSSL 5334, LSSL 5337, LSSL 5360, and LSSL 5385.

LSSL 5367. Research Design & Methodology. 3 Hours.
Students are introduced to research methods, project designs, and data-gathering instruments pertinent to libraries. Students learn to apply research techniques relevant to school libraries. An emphasis is placed on the development of a research or grant proposal. Required for MLS.
Prerequisite: LSSL 5337.

LSSL 5368. Library Services & Programming for Children & Young Adults. 3 Hours.
Student study programming children and young adult services, including promotional activities, storytelling, book talks, reading guidance, library skills and instruction, innovative projects, and informal library use. In addition, students are introduced to trends and evaluation of research in the area. Elective.
Prerequisite: LSSL 5360 and LSSL 5385.

LSSL 5370. School Librarianship. 3 Hours.
Students are introduced to the design and development of curriculum that utilizes a systematic approach to instruction. An emphasis is placed on explicitly stated objectives, appropriate teaching strategies, and production of materials to facilitate achievement of goals using the latest in instructional technologies, including multimedia. Required for certification and MLS.

LSSL 5376. Field Research in Library Science. 3 Hours.
Graduate candidates are provided an opportunity for in-depth field study of a problem or topic conducted on-site at distinguished libraries or museums. Independent research in a candidate's area of specialization is conducted. The required research project culminates in a scholarly written paper and a poster session presentation. Additionally, candidates participate in on-site experiences and attend presentations unique to the course location.
Prerequisite: A written research proposal is required in advance to determine that project is suitable.

LSSL 5380. Masters Seminar. 3 Hours.
Students engage in an in-depth study of specialized subjects; may be repeated as topics vary. Examples of topics may include: Multicultural literature; eBooks and audiobooks, and other variations in materials; nonfiction for children and young adults. Elective.
Prerequisite: Appropriate required courses and approval of the Department Chair.

LSSL 5385. Literature for Young Adults. 3 Hours.
Students are acquainted with the selection, critical analysis, and historical development of literature for young adults. Emphasis is placed on selecting recreational and informational materials for young adults that reflect our multicultural society; identifying techniques, activities and strategies that motivate young adults to read and respond to literature; and developing critical abilities for evaluating literature for young adults. Required for certification and MLS.
Prerequisite: LSSL 5360.

LSSL 5391. Digital Technology for the School Librarian. 3 Hours.
Students are introduced to the Internet and digital technology for school librarians. Some of the topics covered may include evaluation of digital resources, various search tools, and a variety of communication tools. In addition, students explore ethical issues related to the responsible use of digital technology, including a wide variety of curriculum connections. Required for certification and MLS.

LSSL 5393. Historical Development of Literature for Children. 3 Hours.
Students examine the historical development of literature written specifically for children as well as trace the history from the earliest books for children to current trends and issues in the field. Elective.
Prerequisite: LSSL 5360.

LSSL 5396. Computer Science Applications to Librarianship. 3 Hours.
Students examine the history and status of automated library services, including the international standards, hardware, and commercial software available to support cataloging, circulation, online catalogs, reference services, and administrative tasks. Required for MLS.
Prerequisite: Complete 12 credit hours of 5000 - 7000 LSSL coursework.

LSSL 7088. Special Topics in School Library Leadership. 3 Hours.

LSSL 7089. Independent Study in School Librarianship. 1-3 Hours.
Students engage in independent research based on a submitted research proposal. Elective. Course Equivalents: LSSL 5375
Prerequisite: Requires approval of Department Chair, LSSL 5360 and LSSL 5370.

LSSL 7337. Administrative and Leadership Issues in School Librarianship. 3 Hours.
Students focus on issues related to the responsibilities of program directors of library media in school districts. This course is one of the four courses that comprise a Library Science Cognate. Candidates conduct research and make inquiries into the development of effective strategies for planning and implementing organizational change in school libraries.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7361. Literature & Related Materials for PreK-12 School Libraries. 3 Hours.
Candidates conduct research on issues of literacy related to school libraries and how literature specifically written for the PK-12 population may be used to promote and support development of literacy. This course involves advanced analysis and synthesis of the knowledge, skills, dispositions and ethics of school library leaders.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7366. School Library Doctoral Internship. 3 Hours.
Doctoral students are prepared for school library leadership, to cultivate an ethic of scholarship, and are provided insight into the challenges of the role. Doctoral students exercise critical perspectives by engaging with the readings, their peers, other educators, and the instructor in class discussions, assignments, reflective journaling, and internship experiences.
Prerequisite: LSSL 7337, LSSL 7361, LSSL 7367, and LSSL 7370.

LSSL 7367. Research in Library Science. 3 Hours.
Students focus on development of useful research questions and methodologies, evaluation of approaches to narrowing gaps between knowledge and practice, means of providing administrative support for research activities, and development of collaborative strategies for implementing school library-related research studies across disciplines.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7370. Leadership in Tech & Info Literacy for School Libraries. 3 Hours.
Candidates research and analyze issues related to technology and information literacy. Topics may include: Collaboration between teachers and librarians; the role of librarians as technology leaders on school campuses; professional development and support for faculty; technology as a tool for assessing students; ethical issues related to technology and information literacy; and selection and acquisition of hardware and software.
Prerequisite: Admission to Educational Leadership doctoral program with Library Science cognate.

LSSL 7387. Field Study in Library Science. 3 Hours.
Doctoral students are provided with the opportunity to engage in a detailed investigation of a program or problem in library science. Doctoral students work under the supervision of a Library Science faculty member and are expected to produce a written product or presentation regarding the field study. Permission of the Supervising Professor is required. D. Program and permission of the Supervising Professor.
Prerequisite: Admission to the Ed.

Literacy (LITC)

LITC 7089. Independent Study. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3). Course Equivalents: READ 7089
Prerequisite: Consent of Department Chair.

LITC 7300. Psychological & Social Foundations of Language & Literature. 3 Hours.
Using cognitive-processing, socio-cognitive processing, transactional, transactional-socio-psycho-linguistic, attitude, influence, and critical theories, candidates will explore literacy education. Course Equivalents: READ 7300
Prerequisite: Admission into the Ed.D. program in Literacy Leadership.

LITC 7310. Literacy, Policy, and Change. 3 Hours.
This course will examine the connections among the psychological, sociological, cultural, and political aspects of literacy learning and teaching. Students will develop their own research, community service and/or professional exploration projects, present works-in-progress, and set goals for further development. Course Equivalents: READ 7310
Prerequisite: READ 5325 and BESL 5302.

LITC 7320. Issues and Trends in Literacy Education. 3 Hours.
Current issues and trends related to field of literacy acquisition will be examined through the lens of theory, process and practice. Course Equivalents: READ 7320
Prerequisite: Admission into the Ed.D. program in Literacy Leadership.

LITC 7330. Research in Language and Literacy. 3 Hours.
This course is designed to present current theories and research regarding aspects of literacy and oral and written language. This knowledge is related to instructional applications for classrooms for the literacy development of children and students. Course Equivalents: READ 7330
Prerequisite: READ 5306 or consent of the instructor.

LITC 7332. Literacy Pedagogy For Adult Learning. 3 Hours.
Issues, research and publications on the methodologies dedicated to the teaching of adults about literacy at the university level, whether in developmental reading or writing classes or enrolled in teacher education classes will be explored. Course Equivalents: READ 7332
Prerequisite: LITC 7300.

LITC 7335. Curriculum Theory and Literacy Education. 3 Hours.
This course explores the variety of curriculum perspectives, theories and processes related to the greater issue of literacy and literacy acquisition and the role of literacy leader at local, state, regional and national/international levels. Course Equivalents: READ 7335
Prerequisite: LITC 7300 and LITC 7320.

LITC 7336. Strategies for College Reading in Developmental Education. 3 Hours.
This course explores research and practical application of reading concepts related to developmental and reading education. Principles of learning, students' reading strategy development, assessment/evaluation of teaching/learning, and the use of instructional technology will be examined using research-based best practices in developmental reading education. Course Equivalents: READ 7336 .

LITC 7340. Analyzing Language Use in LITC. 3 Hours.
This course is a study of language use (spoken and written) within a critical constructivist context with a focus on the analysis of discourse. It provides a critical examination and implementation of literacy and language theories, uses of language in social and educational settings, and research methodologies related to how language use is influenced by and impacts politics, society, literacy, and literacy instruction. Course Equivalents: READ 7340
Prerequisite: Admission into the Ed.D. program in Literacy Leadership.

LITC 7345. Literacy Assessment. 3 Hours.
This course provides an opportunity to train others in the use and interpretation of literacy assessment instruments. Additionally candidates will assist school sites in establishing a school-wide process for collecting, implementing, and communicating the results of a broad range of assessment data. Course Equivalents: READ 7345 .

LITC 7350. Qualitative Methods in Literacy Education. 3 Hours.
This course provides both theoretical and practical dimensions of qualitative research. Various paradigms of qualitative research, such as case study analysis, naturalistic inquiry, discourse analysis, ethnography, and narrative analysis are addressed in this course. Students will engage in data collection, analysis, and reporting of an individualized research project. The research project will enable students to summarize empirical evidence related to psychological, sociological, and linguistic foundations of reading and writing processes and instruction. Students will conduct and publish research and contribute to the development of the knowledge base. Course Equivalents: READ 7350
Prerequisite: Admission into the Ed.D. program in Literacy Leadership.

LITC 7358. Advanced Studies in Literacy Research. 3 Hours.
This course will allow doctoral students to learn and apply mixed-methods models to their research agendas. It will extend their research experiences beyond the limits of strictly qualitative or quantitative and allow for more applicability of their future research efforts. Social Science research continues to stress the importance of analyzing data from a variety of perspectives. Expertise in the mixed methods model will encourage doctoral students to examine data from multiple perspectives. Course Equivalents: READ 7358
Prerequisite: none.

LITC 7360. Virtual Ethnography. 3 Hours.
This course will enrich students' existing qualitative research methodologies by providing them with timely research to overcome the barriers that are inherent in conducting research within digital environments. Students will explore the strategies, methods, issues, possibilities, and technologies for

Management Information Systems (MGIS)

MGIS 5080. Independent Study. 1-3 Hours.
This course is designed for directed study of individual students who wish intensive study in some specific area of Management Information Systems. Variable credit (1-3). Course Equivalents: MGIS 5380
Prerequisite: Approval of Department Chair and Graduate Coordinator.

MGIS 5085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide graduate students exposure to new Management Information Systems topics and concepts in a course setting. Variable credit (1-3). Course Equivalents: MGIS 5385 .

MGIS 5310. Seminar in Management Information Systems. 3 Hours.
An in-depth study of business information systems. This course covers computer hardware, software, procedures, systems, and human resources and explores their integration and application in business. Topics include: end-user, computing and development, networking, and data collection and communication. The course content will be adaptive to stay current. The course content will be adaptive to stay current with individual research agendas.

MGIS 5330. Business Applications of Database Management Systems (DBMS). 3 Hours.
Business Applications of DBMS. Database management systems are at the heart of modern business information systems. They facilitate the sharing of data across the organization, and therefore support the notion that data is a corporate resource. Data management, which focuses on data collection, storage, and retrieval, thus constitutes a core activity for any organization. Students with appropriate backgrounds can work individually in specific areas of interest.

MGIS 5360. Project Management for Business Systems Development. 3 Hours.
The courses examines the management of business system development and modification projects. It emphasizes the factors for effective communication and integration with users and user systems. It encourages interpersonal skill development with clients, users, team members, and others associated with development, operation and maintenance of the system. Adherence to methodological life cycle analysis and construction techniques are taught in the context of the creation of business-oriented systems. Students work individually and in teams to solve business problems.

MGIS 5375. Enterprise Resource Planning Business Process Integration. 3 Hours.
This course uses the SAP ERP information system paradigm as a model for examination and development of integrated business process solutions. Students examine the conceptual background, rationale, methods, and procedures commonly employed by businesses in developing and configuring integrated business systems. Students will obtain practice and training through cases and hands-on experience using SAP ERP by requiring them to configure business process solutions through integration of financial, controlling, production, materials management, sales and distribution, manufacturing, and other ERP process modules.
Prerequisite: Thirty-six hours of business related courses of which twelve must be at the graduate level, completion of the MBA core courses and ACCT 5304 or ACCT 5347, or permission of the instructor.

Management (MGMT)

MGMT 5080. Independent Study. 1-3 Hours.
This course is designed for directed study of individual students who wish intensive study in some specific area of Management. Variable Credit (1 to 3). Course Equivalents: MGMT 5380
Prerequisite: Approval of Department Chair and Graduate Coordinator.

MGMT 5085. Special Topic. 1-3 Hours.
This course is designed to provide graduate students exposure to current Management topics and concepts in a course setting. Variable Credit (1-3). Course Equivalents: MGMT 5385 .

MGMT 5300. Foundations Of Strategic Management. 3 Hours.
Students study the fundamentals of management, marketing, and information systems as essential components of competitive strategy. Topics may include: the management functions of planning, organizing, leading, motivating, and controlling; the core marketing principles related to product, price, placement, and promotion; and the value of information systems as key sources of sustainable competitive advantage in 21st century organizations. Industry and competitor analysis, strategy assessment and implementation, and strategy evaluation and control complete this survey course. This course does not apply to the 36-hour graduate credit hour requirement of the MBA degree program.

MGMT 5320. Management of Innovation and Technology. 3 Hours.
Students study current topics in the management of creativity, innovation, technology, and quality assurance. Guest speakers and experiential exercises are utilized in addition to lectures, student presentations, and class discussion of topics. The major project in the course is the development of a technology forecast in a particular technology area through the use of the literature and contact with researchers and leaders in the selected field.

MGMT 5335. Services Management and Marketing. 3 Hours.
Students examine the unique challenges of managing and marketing services. A review of the literature covering service theory and practical experience in designing and maintaining quality services are the foci of the course.
Prerequisite: MKTG 5330.

MGMT 5345. Seminar In Team Leadership. 3 Hours.
Students examine a systematic review, critique, and application of findings of the behavioral sciences to the understanding, prediction and management of individual and group behavior in business organizations.

MGMT 5350. Leading Organizational Change and Development. 3 Hours.
Students focus on advanced theoretical concepts and applications in the areas of leadership, organizational development, and change management. Of particular importance are the concepts of organizational culture and leading organizational change initiatives. The application of specific tools for conducting organizational change initiatives will be explored.

MGMT 5355. Seminar in Human Resource Management. 3 Hours.
In this seminar, students explore relevant background literature, fundamental principles, technical tools, and case studies to develop their proficiency for independent learning and research in the following areas of human resource management: employee recruitment and selection, human resource development, labor relations, wage and salary administration, and employee services.

MGMT 5360. Staffing Organizations. 3 Hours.
Students explore advanced practices and processes involved in selecting and evaluating human resources in an organizational setting as well as examining internal and external factors that influence the strategic nature and effectiveness of these practices. In particular, human resource planning, job analysis, recruitment and selection methods, measurement, performance management, retention management, and the employment contract are assessed as they pertain to staffing organizations.

MGMT 5365. Seminar In Compensation Management. 3 Hours.
Students focus on advanced processes and methods for exploring compensation practices, developing compensation strategies, and managing compensation systems, in general. In particular, job evaluation methods, pay structures, pay-for-performance plans, employee benefits, legal and global issues, and managing labor costs are discussed and assessed.
Prerequisite: MGMT 5355.

MGMT 5370. Social Responsibility of Business. 3 Hours.
Students engage in an in-depth study of the many dimensions of social responsibility in business which include the intellectual foundations supporting the economic, moral, and sociopolitical institutions of democratic capitalism. Case studies are used to familiarize students with the literature in social responsibility, and students are required to perform independent analyses of current events to understand the reasoning behind decisions on social responsibility in the workplace. A basic background in business disciplines is required.
Prerequisite: Graduate standing.

MGMT 5390. Seminar in Strategic Management and Policy. 3 Hours.
This capstone course is concerned with advanced principles and methods used in the strategic management of organizations. Thus, the primary focus is the evaluation of external environmental factors and internal organizational strengths and weaknesses for formulating strategies for organizations. Readings, simulation, and the case method are used to further develop the student's executive knowledge, skills, and abilities for future independent learning and success.
Prerequisite: ACCT 5304, BANA 5368, FINC 5310, BUAD 5310, and MKTG 5330.

Marketing (MKTG)

MKTG 5080. Independent Study. 1-3 Hours.
This course is designed for directed study of individual students who wish intensive study in some specific area of Marketing. Variable Credit (1 to 3). Course Equivalents: MKTG 5380
Prerequisite: Approval of Department Chair and Graduate Coordinator.

MKTG 5085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide graduate students exposure to new Marketing topics and concepts in a course setting. Variable credit (1-3). Course Equivalents: MKTG 5385 .

MKTG 5330. Marketing Management. 3 Hours.
This course focuses on formulating and implementing marketing management strategies and policies with special emphasis on the influence of marketing institutions, market structures, target market, segmentation, and the ability to manage marketing mix variables in a dynamic global environment. The course includes marketing decision making tools and the management of the elements of the marketing plan.

MKTG 5335. Services Management and Marketing. 3 Hours.
This course examines the unique challenges of managing and marketing services. A review of the literature covering service theory and practical experience in designing and maintaining quality services are the foci of the course.
Prerequisite: MKTG 5330.

MKTG 5350. Marketing Problems. 3 Hours.
The course requires analysis of marketing problems related to marketing strategy and programs. Students engage in independent research into the business context and develop familiarity with leading edge marketing theory and practice to creatively solve problems.

Mass Communication (MCOM)

MCOM 5050. Special Topic. 1-3 Hours.
This research course offers special topics based upon new concepts developing in digital media. The specific research topic title appears in the Class Schedule and on student transcripts. Course Equivalents: MCOM 5350 .

MCOM 5099. Independent Study. 1-3 Hours.
This course is designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3).

MCOM 5300. Digital Media History & Theory. 3 Hours.
This course outlines the history and theory of new media from aesthetic, reception, production, media effects, cultural, and political perspectives. Students will explore cross-disciplinary theoretical approaches and apply them to new media and their impact on cultural production.

MCOM 5308. Entrepreneurship for Emerging and Social Media. 3 Hours.
This course leverages digital technologies to teach students how to create commercial production opportunities, disseminate information, and collaborate with clients and partners. This emerging area of study includes the development of new business models comprised of information brokers, internet advertisers, licensing and legal issues, E-trailers and E-consumers.

MCOM 5310. Critical Approaches to Media. 3 Hours.
This course explores the growing body of critical and theoretical discourse defining the field of digital media studies. Students examine the major historical, cultural, sociopolitical, economic, structural, and philosophical trends in this field. .

MCOM 5311. Emerging Media Technologies. 3 Hours.
Students evaluate new and emerging technologies, including three-dimensional immersive video, virtual reality, augmented reality, game engines, mobile devices and artificial intelligence. Students incorporate the use of media technologies in the development of emerging media projects.

MCOM 5320. Digital Media Ethics and Law. 3 Hours.
This course examines ethical and legal concepts as they apply to various forms of electronic media expression, with special focus on digital media and Internet-based expression. Free speech, open records, privacy, libel, copyright and obscenity laws are reviewed in the context of the digital environment.

MCOM 5324. Social Marketing. 3 Hours.
This course explores the principles of social marketing, which uses commercial marketing techniques to motivate behavioral and social change. Students critically examine social change initiatives that target deeply held beliefs and personal behaviors resistant to change. They learn techniques for using social marketing to improve a social good, such as individual health, the environment, or the community.

MCOM 5330. Advanced Writing for Emerging and Social Media. 3 Hours.
This course enables students to develop competency in narrative techniques and information delivery for different genres, distribution platforms, and audiences. Emphasis is placed on digital media technologies and the demands of writing for video, social media, multimedia production, digital sound and live performance.

MCOM 5334. Digital Advertising. 3 Hours.
Students learn how advertising is planned, developed, and executed; and have an opportunity to develop a strategic advertising campaign plan to solve specific communication problems for a client through effective message strategies. Students focus on a comprehensive understanding of the role of advertising in the digital media era. Topics may also include current industry development, such as social media, the increased focus on storytelling and branding in today's digital advertising strategies, and the impact of globalization.

MCOM 5335. Podcasting & Audiobooks. 3 Hours.
Students in this class design, launch, and maintain regularly updated podcasts on non-fiction topics of their choice. These professional podcasts are accessible through popular platforms. Students develop audio editing techniques on free, multi-platform software; they also learn to balance personal sharing and professional standards on a growing and pertinent audio medium.

MCOM 5340. Social Media. 3 Hours.
This course is both theoretical and practical, drawing from the literature of social networks and community to explore online social media. Students learn how to develop strategies to effectively communicate and collaborate with their audience through current social media platforms. Emphasis is placed on the media professional's use and understanding of social media.

MCOM 5341. Social Media Analytics. 3 Hours.
Students gain a comprehensive overview of social and digital media data analytics. Students learn key terminology for social and digital media data analytics, examine its role in integrated marketing communication, and learn various digital analytic methodologies. With this understanding as a foundation, students practice addressing key strategic communication questions related to return on investment, audience measurement, and brand management.

MCOM 5355. Digital Media Management. 3 Hours.
Students in this course learn management in entertainment, public relations, emerging media, and related fields, including the supervision of creative digital media projects. The course examines media production decisions and decision-makers adapting to digital media trends. It also develops leadership training and skills designed to manage media organizations and projects.

MCOM 5360. Mass Communication Theory. 3 Hours.
This course addresses the history and development of mass communication theory. Theoretical approaches, models and application of theories are examined.

MCOM 5361. Emerging & Social Media Campaign Strategies. 3 Hours.
Students practice conceptualizing, designing, creating, and placing effective messages in the digital media while solving communication problems through appropriate communication strategies. Students learn key terminology for emerging and social media, incorporate knowledge about significant trends and issues in planning and evaluating strategic communication campaigns, and design a comprehensive campaign plan featuring emerging and social media.

MCOM 5364. Strategic Storytelling for Emerging & Social Media. 3 Hours.
Students learn the array of tools available and how to apply various creative storytelling techniques to influence and persuade a target audience. Students also explore the best applications for implementing and disseminating stories across communication channels and create original multimedia content that contributes to personal or professional goals.

MCOM 5390. Professional Internship. 3 Hours.
Students in this course engage in professional work to obtain experience in the television/film, radio, internet/social media, journalism, advertising, or public relations industries. Students are evaluated by their employer, maintain a journal or portfolio of activities, and present their internship experiences to the graduate faculty.

MCOM 6098. Thesis. 1-3 Hours.
Students work under faculty supervision to produce a scholarly thesis of original work about digital media approved by all members of the student's thesis committee.
Prerequisite: Approval of committee chair.

MCOM 6099. Thesis Project. 1-3 Hours.
Students work under faculty supervision to produce a thesis project of original work in digital media approved by all members of the student's thesis committee.
Prerequisite: Approval of committee chair.

MCOM 6300. Advanced Preproduction. 3 Hours.
Students are introduced to advanced sound production, lighting, and other pre-production techniques combined with narrative storytelling using digital media. Each student produces and formats high-quality media for digital distribution, including high-definition output, interactive application design and online streaming.

MCOM 6310. UX Design and Production. 3 Hours.
Students combine skills in UX design to conceive, plan, produce and edit multimedia projects. Each student will work on a multimedia design project, and the class will also be a test lab for larger and innovative multimedia projects. Students will learn how to develop their own UX design ideas, how to manage different multimedia parts of an overall multimedia strategy, and how to demonstrate advanced techniques in graphics, usability, user interface, and testing application. The course also examines how professionals run UX projects in the industry.

MCOM 6311. Advanced Production in Emerging and Social Media. 3 Hours.
Students conceptualize, plan, and execute advanced emerging and social media projects. In this hands-on course, students produce a variety of advanced projects of various types such as 360 videos, virtual reality stories, augmented reality stories, and social media campaigns. Particular attention is placed on execution, deployment, and measuring the effectiveness of each project.

MCOM 6315. Web and Mobile Development. 3 Hours.
Students learn theoretical structures behind informational design for the digital media industry via the internet and mobile devices. Students learn node-based programming in Unreal Engine 4/5, as well as how to creatively craft digital art and content. Students create their own online and mobile content.

MCOM 6320. Documentary Storytelling. 3 Hours.
This course takes a creative and systematic approach to transforming ideas into effective scripts for corporate, medical, religious, educational and governmental videos. Students learn and apply techniques for communicating visually, writing for the ear, using drama and humor, and applying documentary genre structures in various disciplines and for media platforms.

MCOM 6330. Digital Editing. 3 Hours.
Students study the creative and aesthetic qualities of editing film and video. Students learn to edit for both narrative and documentary styles including computer-generated imagery, sound design, color correction, mood and rhythm.

MCOM 6335. Motion Graphics and Effects. 3 Hours.
Students create motion graphics and visual effects using animation, green screen technology, and compositing programs. Students learn enhanced techniques on professional software platforms to achieve a variety of dramatic and artistic motion effects.
Prerequisite: None.

MCOM 6340. Digital Entrepreneurship. 3 Hours.
This course examines how new media tools are used to create commercial opportunities and assist in the dissemination of information in both digital and traditional media outlets. Students will explore and apply entrepreneurial principles to create new media business ventures.

MCOM 6350. Narrative Scriptwriting. 3 Hours.
This course addresses the art and craft of narrative scriptwriting for digital media. Students develop narratives through the creation and building of characters and using dramatic principles such as scene setting, plotting, sequencing.

MCOM 6354. Virtual Internship. 3 Hours.
This internship takes place in an Information and Communication Technologies (ICT)-supported environment, where students carry out identifiable and meaningful work-based tasks that fit within the student's educational curriculum. Interns contribute to projects while working remotely, meaning the majority of their interactions with co-workers, clients and supervisors are carried out online.

MCOM 6360. Mass Communication Research Methods. 3 Hours.
This course integrates an understanding and application of research methods to develop the ability to produce research in an academic environment and in the profession associated with mass communication fields. Students use and understand the processes and interpret the statistics that bring rigorous data to the research process. Students design, administer and critically evaluate a personal behavioral research project.

MCOM 6370. Remote Digital Streaming. 3 Hours.
Students in this course manage digital content streaming workflows from multiple cameras to numerous devices for diverse audiences. Students learn end-to-end audio/video workflow processes, including media acquisition, encoding and live editing, advertising insertion, content delivery, the client-side player technology and audience analytics.

MCOM 6373. Video for Emerging and Social Media. 3 Hours.
This course emphasizes advanced applications of digital editing and visual storytelling. Through the creation and production of programming for Cable Channel 7, experienced student digital filmmakers increase aesthetic and technical proficiency in advanced video camera operation, lighting, and video editing methods.

MCOM 6380. Studio Production. 3 Hours.
Students in this course conduct original production planning and master studio skills, including director, technical director, audio engineer, teleprompter operator, floor manager, and camera operator. Teamwork and professionalism are emphasized in the creation of original, creative digital media content in a variety of televisual and online media.

MCOM 6390. Audio for Emerging and Social Media. 3 Hours.
Students in this course learn how sound design and editing is developed in diverse ways for digital video and multimedia productions. It focuses on how sound design conveys meaning and how sound functions along with visual elements. Students explore how to capture sound using a variety of audio devices in multiple locations and how sound is used in editing to strengthen visual language, focus attention on visual elements and actions, and provide compositional structure or create ambience.

MCOM 6398. Capstone Portfolio Project I. 3 Hours.
Students in this course propose a capstone portfolio project of original digital media production works. Students work under faculty supervision from an adviser and members of a capstone portfolio project committee. This course precedes MCOM 6399.
Prerequisite: Departmental approval.

MCOM 6399. Capstone Portfolio Project II. 3 Hours.
Students in this course produce a capstone portfolio project of original work in digital media production. Work is conducted under faculty supervision by members of the student's capstone portfolio project committee; upon completion, it is presented to faculty, fellow students and the public. This course follows MCOM 6398.
Prerequisite: Department approval, MCOM 6398.

Mathematics (MATH)

MATH 5300. Mathematics Internship. 3 Hours.
Students engage in a supervised work environment that provides applied experience in fields related to the mathematical sciences. This work may take place within a public, non-profit, or private organization. Under the supervision of a faculty internship coordinator, students will apply mathematical theory and techniques learned in the classroom to real world applications, gain practical skills like software coding and applied analysis, and be introduced to professional networking opportunities for their future careers. Students are required to document their completion of 240 hours of internship experience in the coordinated work environment.
Prerequisite: Departmental Approval.

MATH 5360. Special Topics. 3 Hours.
Topics and courses are selected to suit individual needs of students. Methods of independent study and research are stressed. The course may be repeated for additional credit.
Prerequisite: Consent of program coordinator.

MATH 5361. Theory and Applications Of Probability. 3 Hours.
Topics include probability axioms and properties, conditional probability, random variables, probability distributions, moment generating functions, laws of large numbers, and the Central Limit Theorem. Also listed as STAT 5361.
Prerequisite: STAT 4372 (or equivalent) or consent of the instructor.

MATH 5365. Introductory Analysis. 3 Hours.
Students engage in a more thorough treatment of the material traditionally considered in elementary calculus. Topics may include sets, functions, properties of the real number system and sequences. NOTE: Students who have taken Math 4361 may not take MATH 5365.
Prerequisite: Graduate Standing.

MATH 5366. Elementary Analysis. 3 Hours.
Students study limits, continuity, differentiation, Riemann integration, infinite series and sequences, and series of functions. NOTE: Students who have taken Math 4366 may not take MATH 5366.
Prerequisite: Graduate Standing and MATH 4365 or MATH 5365.

MATH 5370. Fourier Analysis & Application. 3 Hours.
This course is a study of applied harmonic analysis. Topics include Fourier analysis, wavelet analysis, and applications of these topics.
Prerequisite: MATH 4366 or MATH 5388 or the consent of the instructor.

MATH 5375. Partial Differential Equations. 3 Hours.
Students solve problems involving partial differential equations from the natural sciences. Topics may include derivation of the heat/diffusion and wave equations, the method of separation of variables to solve the heat, wave, and Laplace equations on finite domains, Fourier series, Sturm-Liouville eigenvalue problems, the Fourier transform method to solve equations on infinite domains, the method of characteristics, and d'Alembert's solution of the wave equation. NOTE: Students who have taken MATH 4375 may not take MATH 5375.
Prerequisite: Graduate Standing.

MATH 5377. Algebraic Structures. 3 Hours.
Students study basic structures of abstract algebra: groups, rings, and fields. Topics may include elementary number theory, equivalence relations, groups, homomorphisms, cosets, Cayley's Theorem, symmetric groups, rings, polynomial rings, quotient fields, principal ideal domains, and Euclidean domains. Note: Students who have taken Math 4377 may not take MATH 5377.
Prerequisite: Graduate Standing.

MATH 5380. Research Project In Mathematics Education. 3 Hours.
In this course, the student will develop a project based on one of the core areas (Algebra, Geometry, Analysis, or Probability and Statistics) appropriate for use in teaching. This course is a capstone for candidates pursuing the degree of MA of Mathematics.
Prerequisite: MATH 5386, MATH 5387, MATH 5388, MATH 5389.

MATH 5381. Algebra: Structures and Applications. 3 Hours.
This course includes the study of algebraic structures (such as groups, rings, integral domains, and fields) and their properties, and activities and concepts related to the algebra of real numbers that are applicable to middle school teachers. The course is designed for in-service middle school mathematics teachers.

MATH 5382. Discrete Mathematics for Teachers. 3 Hours.
This course will include a study of graph theory, combinatorics and recursion, social choice and apportionment, algorithms, and iteration, with an emphasis on real-world problem solving applications and mathematical connections to the school curriculum. This course is specifically designed for middle and high school teachers, with a mathematics specialization, obtaining a Master's Degree in Education with a minor in mathematics.
Prerequisite: Middle or secondary school mathematics certification, or equivalent.

MATH 5383. Seminar in Geometry and Measurement for Teachers. 3 Hours.
This course will include a study of congruency, similarity, transformations, coordinate geometry, and measurement. It is specifically designed for teachers with a mathematics specialization who wish to obtain the master's degree in education with a minor in mathematics.
Prerequisite: Middle school mathematics certification and MATH 3383 or equivalent.

MATH 5384. Seminar in Mathematical Systems for Teachers. 3 Hours.
This course will include a study of the development of the natural number system, the development of the integers, the development of the rational number system, and the development of the real number system. It is specifically designed for teachers with a mathematics specialization who wish to obtain the master's degree in education with a minor in mathematics.
Prerequisite: Middle school mathematics certification and MATH 3384 or equivalent.

MATH 5385. Seminar in Number Theory and Proportionality for Teachers. 3 Hours.
This course includes topics from arithmetic, algebra, geometry, number theory and other mathematical areas at a level appropriate for junior high school teachers.
Prerequisite: Consent of instructor.

MATH 5386. Concepts in Modern Algebra. 3 Hours.
This course consists of a survey of several abstract algebraic systems including groups, rings, integral domains, and fields.
Prerequisite: Certification in secondary school mathematics and MATH 3377 or equivalent.

MATH 5387. Transformational Geometry. 3 Hours.
This course is a study of topics in geometry including constructions and transformations.
Prerequisite: Certification in secondary school mathematics and MATH 3363 or equivalent.

MATH 5388. Concepts in Analysis. 3 Hours.
This course includes topics from set theory, number systems, functions, real sequences, limits, continuity, differentiation and integration.
Prerequisite: Certification in secondary school mathematics and MATH 1430 or equivalent.

MATH 5389. Concepts in Probability and Statistics. 3 Hours.
This course includes topics from probability theory, distribution functions, descriptive statistics, and inferential statistics.
Prerequisite: Certification in middle or secondary school mathematics and MATH 3379 or equivalent.

MATH 5395. Digital Image Processing. 3 Hours.
The emphasis of this course is on the analysis of digital image processing algorithms used for solving problems in areas such as image enhancement and restoration, image registration, pattern recognition, and image segmentation.
Prerequisite: MATH 3377 and programming experience.

MATH 5396. Optimization. 3 Hours.
The emphasis of this course is on modern algorithms and computational methods needed for solving optimization problems. Applications to current industrial problems will be given, and the theory of operations research will be developed.
Prerequisite: MATH 3377 and MATH 2440, or consent of instructor.

MATH 5397. Discrete Mathematics. 3 Hours.
Discrete structures are emphasized in this course, which includes a study of combinatorics, graph theory, and number theory. The applications of these structures in computers and communications will be highlighted.
Prerequisite: MATH 4377 or MATH 5386 or equivalent.

MATH 6060. Independent Study. 1-3 Hours.
Students independently pursue a specific topic in advanced mathematics under a faculty member's supervision. The problems addressed in the course will be mutually selected and approved by the student and a mathematics faculty member. A thorough development of necessary axioms, definitions and properties from any related coursework will be reviewed before students are guided to extend those elements towards the main results from the chosen topic. These results may be practical applications of prior coursework and/or theoretical foundations of an advanced topic, specific to the students' individual needs and goal. Variable Credit (1 to 3).
Prerequisite: Consent of instructor.

MATH 6099. Research and Thesis. 1-3 Hours.
Students complete and successfully defend their thesis. Variable Credit (1-3). Course Equivalents: MATH 6399 .

MATH 6332. Introduction To Topology. 3 Hours.
This course is a rigorous introduction to point set topology. Topics include continuity, connectedness, compactness, metrization theorems, separation theorems, and the Tychonoff theorem.
Prerequisite: MATH 3300 or equivalent.

MATH 6333. Foundations Of Analysis I. 3 Hours.
This course is the first half of the analysis sequence. The analysis sequence includes topics from advanced multivariate calculus, normed linear spaces, measure theory, including Lebesgue and Borel measures, measurable functions, Lebesgue integration, and spaces of integrable functions.
Prerequisite: MATH 4361 and MATH 4366, equivalent, or consent of instructor.

MATH 6334. Foundations Of Analysis II. 3 Hours.
This course is the second half of the analysis sequence. The analysis sequence includes topics from advanced multivariate calculus, normed linear spaces, measure theory, including Lebesgue and Borel measures, measurable functions, Lebesgue integration, and spaces of integrable functions.
Prerequisite: MATH 6333 or consent of instructor.

MATH 6335. Algebra I. 3 Hours.
This course is in the first half of the algebra sequence. The algebra sequence will include Group and Ring theory. Special topics include groups, group actions, the Sylow Theorems, rings, modules, fields, field extensions, and an introduction to Galois Theory.
Prerequisite: MATH 4377 or equivalent.

MATH 6336. Algebra II. 3 Hours.
This course is the second half of the algebra sequence. The algebra sequence will include Group and Ring theory. Specific topics include groups, group actions, the Sylow Theorems, rings, modules, fields, field extensions, and an introduction to Galois Theory.
Prerequisite: MATH 6335 (Algebra I) or equivalent.

MATH 6340. Algebraic Geometry. 3 Hours.
This course will provide an introduction to algebraic geometry emphasizing both classical theory and the practical aspects of computations with polynomial ideals using Groebner bases. Topics include Groebner bases, affine varieties, morphisms and rational maps, elimination theory, the Nullstellensatz, primary decomposition, projective varieties, Grassmannians, and Hilbert Functions.
Prerequisite: Math 6336.

MATH 6342. Algebraic Topology. 3 Hours.
An introduction to the concepts of homotopy and homology theories. The following topics will be included: The fundamental group, classification of surfaces, higher homotopy groups, cellular and/or simplicial homology.
Prerequisite: MATH 6332.

MATH 6352. Differential Geometry. 3 Hours.
This course examines the local and global geometric and topological properties of curves and surfaces in 3-dimensional Euclidean space. Topics will include curvature and torsion of space curves, mean and Guassian curvature of surfaces, and the Gauss-Bonnet theorem. In addition, the course will also examine smooth Riemannian manifolds, the curvature tensor, geodesics, and applications such as surfaces of constant mean curvature.

MATH 6360. Special Topics In Mathematics. 3 Hours.
Topics and courses are selected to suit the individual needs of students. Methods of independent study and research are stressed. The course may be repeated for additional credit. Prerequisite: Consent of program coordinator.

MATH 6361. Mathematical Logic. 3 Hours.
Students examine logical metatheory and meta-mathematics, which is the field at the intersection of mathematics and logic that investigates logical reasoning with mathematical methods. Topics include completeness and soundness proofs for first-order predicate logic and its extensions, the formal theory of deduction, and fundamental Gödel completeness theorem and related results. The compactness theorem is established, coordinating semantics and deduction, meaning, and consequence.
Prerequisite: MATH 3300.

MATH 6367. History of Advanced Mathematics. 3 Hours.
This course examines the history of the development of modern mathematics, from the discovery of calculus, through the industrial revolution, into the modern age of computers and digital technology. Emphasis will be placed on the applications of calculus and the abstraction of geometry, analysis, and algebra which followed.
Prerequisite: Math 4367 or departmental approval.

MATH 6368. Numerical Linear Algebra. 3 Hours.
This course is a study of vector spaces and matrices. Topics include solving linear systems, least square methods, eigenvalue and eigenvector theory, and applications of these topics.
Prerequisite: MATH 3377 or consent of instructor.

MATH 6373. Applied Analysis. 3 Hours.
This course studies properties of normed spaces and functions defined on normed spaces. Special emphasis is placed on Euclidean n-space. Topics include limits, continuity, differentiation, and integration.
Prerequisite: MATH 4366 or MATH 5388 or consent of the instructor.

MATH 6376. Foundations of Applied Mathematics. 3 Hours.
This course provides a comprehensive presentation of the standard methods of applied mathematics that are used when solving problems posed in engineering and science. Topics may include finite dimensional vector spaces, function spaces, integral equations, differential operators, calculus of variations, complex variable theory, transform and spectral theory, ordinary and partial differential equations, bifurcation theory, nonlinear waves, and asymptotic expansions, and perturbation theory.
Prerequisite: MATH 3376 and MATH 3377 or their equivalents.

MATH 6377. Abstract Algebra. 3 Hours.
Algebraic structure is emphasized in this course, which includes a study of groups, rings, fields, and their applications in coding theory and cryptography.
Prerequisite: MATH 4377 or MATH 5386 or consent of instructor.

MATH 6379. Functions Of Complex Variable. 3 Hours.
Included in this course are studies of the complex number system, analytic functions, integration theory and the calculus of residues. Additional topics of special interest to the class may be included.
Prerequisite: MATH 2440 or consent of instructor.

MATH 6380. Research Methods in Mathematics. 3 Hours.
Students work on a specific research topic under a faculty member's supervision. The specific topic will be chosen from current trends and future directions of an active field of mathematics. The course content will vary based upon the topic the student and the mentoring faculty member choose. Regular meetings with other students in the course will focus on expected elements of the research paper and presentation that are required for successful completion of the course.
Prerequisite: Consent of instructor.

MATH 6381. Connections: Algebra, Trigonometry, Combinatorics. 3 Hours.
Students examine topics that span the fields of algebra of polynomials, complex numbers, trigonometry, and combinatorics. The course goal is to develop an in-depth understanding of the connections among these branches of mathematics, and how knowledge of one branch applies in the others.

MATH 6382. Issues in Undergraduate Math Education. 3 Hours.
Students study pedagogical issues related to undergraduate mathematics education. Topics may include national and Texas perspectives on pedagogical issues with respect to undergraduate mathematics education, designing an effective mathematics course and class (in face-to-face, online, and hybrid platforms), establishing a productive mathematics learning environment, using active learning techniques, promoting higher-order thinking, and assessing to inform instruction and promote learning.

MATH 6385. Advanced Mathematical Problem Solving. 3 Hours.
Students study advanced mathematical problem-solving processes and strategies and practice their learning by solving real-world problems to prepare them for their individualized end-of-program capstone research projects. Students will explore how to design, conduct, carry out, and report on a problem-solving project in a selected content area. Topics may include advanced concepts in algebra, geometry, financial mathematics, and calculus, including functions, graphs, complex numbers, and number systems.
Prerequisite: Graduate Standing.

MATH 6386. Number Theory. 3 Hours.
Students examine elementary properties of the ring of integers. Topics include concepts, algorithms, and proofs of fundamental results of modular arithmetic, the distribution of prime numbers, unique factoring, and modern applications of these ideas.
Prerequisite: Graduate Standing.

MATH 6387. Concepts in Linear Algebra. 3 Hours.
Students learn advanced topics in Linear Algebra with an emphasis on abstract vector spaces and proof. Topics include vector spaces, linear maps, eigenvalues, eigenvectors, invariant subspaces, inner product spaces, and complex vector spaces.
Prerequisite: MATH 3377, or equivalent.

MATH 6394. Scientific Computation. 3 Hours.
Topics include solutions of equations, approximation and interpolation, numerical differentiation and integration, the fast Fourier transform, and numerical simulation. Also listed as COSC 6321.
Prerequisite: MATH 2440 and some programming experience, or consent of instructor.

MATH 6398. Research And Thesis. 3 Hours.
This course includes a study of research concepts in mathematics, identification of an appropriate thesis problem, presentation of a thesis prospectus, and the preparatory work and research leading to the completion of the thesis. Study must be supervised by a member of the graduate mathematics faculty.

Medicine Systems (MEDS)

MEDS 7318. Clinical Clerkship Preparation. 3 Hours.
This course provides the student with the opportunity to review salient principles and procedures essential for the success at the start of clinical rotations. The course reviews the interpretation of electrocardiograms, imaging studies, and laboratory data, as well as OSCE's, procedures in the simulation lab and osteopathic principles. Students are expected to be able to participate in the diagnosis and treatment of patients upon their arrival on a clinical service in their clerkships, and this course serves to ground them in basic medical knowledge and processes. Credits: 3
Prerequisite: Successful completion of all coursework in years 1 & 2, passing grade on COMLEX Level 1.

MEDS 7320. Systems Integration. 3 Hours.
Students integrate and apply biomedical and clinical concepts previously presented throughout the first two years of the undergraduate osteopathic medical curriculum. Mastery of foundational biomedical and clinical concepts will be assessed. Based upon personal strengths and opportunities, students develop a personalized study plan in preparation for successful completion of the COMLEX-USA Level 1 examination which is required for continuation in the curriculum.

MEDS 7404. Renal & Genitourinary. 4 Hours.
Students integrate the functional anatomy and physiology of the renal and hematopoietic systems. Students assess and interpret biochemical markers, signs, and symptoms of renal and hematopoietic pathologies. Students design comprehensive pharmacologic and non-pharmacologic treatment plans and develop an understanding of the ethical, legal, and social aspects related to disease treatment, including dialysis and transplant. Course Equivalents: MEDS 7605 .

MEDS 7405. Hematopoietic System. 4 Hours.
Students analyze the physiology, embryogenesis, and diseases of the blood. Specific emphasis is on disease states and how these reveal basic system characteristics useful in diagnosis and treatment.

MEDS 7504. Skin & Skeletal Muscle. 5 Hours.
Students investigate normal and abnormal structure and function of the integumentary, musculoskeletal, and motor systems. These systems are studied at the cellular, tissue, and organ system levels, including normal structure and function as well as states of disease and dysfunction. Course Equivalents: MEDS 7501, MEDS 7604 .

MEDS 7508. Endocrine & Reproductive. 5 Hours.
Students integrate the core biomedical sciences in the identification, differentiation, diagnosis, and management of the normal and abnormal states of the endocrine, reproductive, and genitourinary systems. Students explore the role of hormones and their impact during pregnancy, organ development, organ function, and on metabolism, including discussions relevant to historical and current medical and surgical interventions for localized and systemic diseases for these systems. Course Equivalents: MEDS 7608 .

MEDS 7607. GI System & Nutrition. 6 Hours.
Students examine the structure and function of the gastrointestinal (GI) and hepatobiliary systems in both health and disease. Basic tenets of nutrition and the impact of GI dysfunction on nutritional status are discussed. Students evaluate the impact of food and diet, including micro and macronutrients, on health and disease prevention. Topics may include therapeutic diets and nutrition for specific disorders as well as tube feeding, IV alimentation, medical and surgical interventions.

MEDS 7609. Lifecycle. 6 Hours.
Students explore topics throughout the lifespan from pediatrics to geriatrics. Discussion includes normal growth and development as well as illness and disease. Basic science underpinnings are applied to divergent clinical manifestations and care at various stages of the lifecycle.

MEDS 7802. Neurologic & Behavior. 8 Hours.
Students explore functional anatomy and physiology of the nervous system in both health and disease, learning to use the neurologic examination, imaging techniques, and biochemical markers, to objectively assess the nervous system. Students learn the signs, symptoms, and consequences of nervous system pathologies resulting from trauma, ischemia, stroke, infection, toxins, autoimmune, and genetic conditions. Students are introduced to an overview of mental health issues, including developmental disorders, adaptive and maladaptive behaviors, mood disorders, stress-induced behavior, fear and anxiety disorders, substance abuse, somatoform disorders, and psychoses. Students also examine ethical, legal, and social aspects related to neuroscience and behavioral pathologies. In order to facilitate cognitive integration of basic and clinical sciences, this course is team-taught by clinicians and basic scientists. Course Equivalents: MEDS 7602 .

MEDS 7803. Medical Microbiology and Immune System. 8 Hours.
Students apply the foundations of medical microbiology and immunology to the physical presentation, diagnosis, and treatment of infectious and immune-mediate diseases. There will be an emphasis on virulence factors and pathogenesis of medically important microorganisms, as well as the innate and adaptive host immune responses to infections and tumors, vaccination, immune deficiency diseases, hypersensitivity reactions, and immune mechanisms of transplantation rejection.

MEDS 7806. Cardiovascular & Respiratory. 8 Hours.
Students integrate concepts related to the cardiovascular and respiratory systems in health and disease. Students analyze environmental and socio-cultural aspects of the region influencing the normal function of the systems. Topics may include morphological sciences (anatomy, histology, and embryology), physiology, pathology, and contemporary therapeutic approaches. Students integrate basic and clinical sciences in the context of commonly presented clinical scenarios. Course Equivalents: MEDS 7606 .

Music Ensemble (MUEN)

MUEN 5110. Accompanying Seminar. 1 Hour.
The course emphasizes specialized development in accompanying techniques designed for the Collaborative Piano/Chamber Music degree in piano.

MUEN 5112. Graduate Ensemble. 1 Hour.
Participation in a musical ensemble at the graduate level.

MUEN 5118. Chamber Music. 1 Hour.
Students develop and refine rehearsal skills, ensemble techniques, listening and interpretive skills through the preparation of chamber music. Student chamber groups work with a coach on a weekly basis and participate in a live performance.
Prerequisite: Permission from the instructor.

Music (MUSI)

MUSI 5068. Independent Study. 1-3 Hours.
Students engage in advanced and specialized work in Music Education, orchestration, composition, theoretical research with an emphasis on instrumental and choral technology. Variable Credit (1-3)
Prerequisite: Approval of the Graduate Advisor.

MUSI 5069. Special Topics. 3 Hours.
Advanced level courses offered of varied topics that are delivered in classroom format which are designed by graduate faculty covering subject matter not currently offered in the curriculum. Credit 3.

MUSI 5322. Philosophy and Theory of Music Therapy. 3 Hours.
Students discuss the philosophical and theoretical foundation of the use of music in therapy. Philosophical positions in this course analyze "music therapy" as a career in professional helping. Characteristics of music therapy research, the nature of scientific evidence in music therapy, and a problem-management and opportunity-development approach to helping individuals through music are addressed. The Socratic method is used through interactive lecture and discussion. Course Equivalents: MUSI 5222 .

MUSI 5323. Graduate Music Therapy Practicum. 3 Hours.
Students focus on the practical application of music therapy by utilizing Transformational Design Model (TDM) for Functional Music Therapy and Music Medicine. Students practice music therapy with systematic procedure such as planning treatments, implementing the treatment plans and evaluating the treatment. Course Equivalents: MUSI 5223
Prerequisite: 6 months of music therapy internship.

MUSI 5324. Clinical Supervision. 3 Hours.
This course provides practical experience in clinical supervision of undergraduate music therapy students. Exploration of issues pertinent to supervision such as student development, rates of skills acquisition, and supervisory styles are discussed. Course Equivalents: MUSI 5224 .

MUSI 5330. Analytical Techniques. 3 Hours.
Students study advanced techniques in the analysis of music from all historical periods. An emphasis is placed on the ability to distinguish various stylistic idioms and to verbalize about the harmonic, rhythmic, melodic, and structural details of music.

MUSI 5331. Seminar In Baroque Music. 3 Hours.
Students engage in a systematic survey of music literature for the Baroque period with emphasis on standard works as they exemplify changing stylistic trends.

MUSI 5332. Seminar In Classical Music. 3 Hours.
Students engage in a systematic survey of music literature for the Classic period with emphasis on standard works as they exemplify changing stylistic trends.

MUSI 5336. Folksong Analysis. 3 Hours.
Students engage in general survey of American folk literature with emphasis upon analytical techniques for selecting musical material for classroom use.

MUSI 5337. Seminar in Nineteenth-Century Music. 3 Hours.
Students engage in a systematic survey of music literature for the Nineteenth-Century period with emphasis on standard works as they exemplify changing stylistic trends.

MUSI 5338. Seminar in Twentieth-Century Music. 3 Hours.
Students engage in a systematic survey of music literature for the Twentieth-Century period with emphasis on standard works as they exemplify changing stylistic trends.

MUSI 5362. Vocal Pedagogy and Techniques. 3 Hours.
Students examine the teaching of voice in both private and group settings. Students review different schools of approach and study the acoustics and anatomy of singing. Class readings, critical listening exercises, teaching demonstrations, and diagnosing vocal issues will be supplemented with computer-based singing analysis software.

MUSI 5363. Pedagogy Of Theory. 3 Hours.
Student are provided a general review of undergraduate theory, with an emphasis on the methods of presenting material to secondary students, and also to freshman and sophomore classes. Comparative analysis of textbooks commonly used in these areas is emphasized.

MUSI 5365. Counterpoint and Analysis. 3 Hours.
Students engage in the focused study of the forms and highly contrapuntal works of J.S. Bach with an emphasis on analysis and stylistic composition projects. Through analysis of the contrapuntal devices within representative forms examined in the course, students will be able to accurately create, interpret and perform polyphony within Western music from all periods.

MUSI 5367. Score Reading. 3 Hours.
The course emphasizes specialized aural development, functional keyboard facility, and proficiency in reading orchestral, band, and choral scores.

MUSI 5378. Sequential Methods: Kindergarten-12 Music. 3 Hours.
Students explore sequential techniques used to lead beginning, intermediate, and advanced musicians in K-12 public/private schools as well as other settings. Comparing and contrasting elements in methods for various instruments/voices, students examine not only commonalities and nuanced differences in those methods, but also how methods are applied sequentially at various skill levels. The course also explores methods for determining appropriate expectations and related assessments for K-12 musicians.
Prerequisite: Admission into MA in Band Studies.

MUSI 5380. Opera Literature. 3 Hours.
Students critically examine the repertoire, performance practice, and historical perspectives of opera from the Baroque era to the present. Students evaluate and analyze differences among national trends in operatic literature.

MUSI 5381. Song History & Literature. 3 Hours.
Students examine the repertoire, performance practice, and historical perspectives of classical art song from its initial creation to the present day. Differences among national styles and time periods are assessed.

MUSI 5388. Seminar In Literature. 3 Hours.
Students engage in advanced study of literature for the various applied music areas, which includes individual research projects and class performance. (Two enrollments allowed, 3 hrs. each).

MUSI 5398. Advanced Studies in the Applied Discipline. 3 Hours.
Students focus on advanced studies in the appropriate field of study.
Prerequisite: Approval of the Graduate Advisor.

MUSI 6031. Major Project. 1-4 Hours.
Students focus on the production of a final project as a culminating demonstration of professional capability in the major field. Variable Credit (1-3).
Prerequisite: Permission from the appropriate graduate faculty.

MUSI 6099. Thesis. 1-3 Hours.
Students complete and successfully defend their Thesis. Variable Credit (1-3.) Course Equivalents: MUSI 6399 .

MUSI 6181. Recital I. 1 Hour.
A one hour solo performance reflecting high standards of artistic achievement and involving both research and applied study requisite to its success. The first of two recitals for performance and conducting specializations.

MUSI 6182. Recital II. 1 Hour.
A one hour solo performance reflecting high standards of artistic achievement and involving both research and applied study requisite to its success. The second of two recitals for performance and conducting specializations.

MUSI 6183. Recital III. 1 Hour.
A one-hour solo performance reflecting high standards of artistic achievement and involving both research and applied study requisite to its success. The third recitals for performance and conducting specializations.
Prerequisite: MUSI 6181 and MUSI 6182.

MUSI 6221. Research in Music Therapy. 2 Hours.
Students focus on descriptive, experimental, philosophical, qualitative, and historical research in music therapy. Students prepare critiques of research material and design original research projects related to their own area of interest.

MUSI 6285. Applied Analysis and Pedagogy. 2 Hours.
Students focus on strengthening students' identified weaknesses in the areas of score study and analysis and in instrumental pedagogy. Based on information obtained from multiple diagnostic assessments and from demonstration of skills in projects or performances, students work with faculty to develop a personal plan of study. The coursework includes rehearsals and performances and culminates in the completion of a detailed project intended as a teaching tool. Course is taken for three consecutive summers.

MUSI 6332. Advanced Music Therapy Practice. 3 Hours.
Students review research literature in advanced clinical topic areas such as music and sensory-motor processing, music and speech/language, music and cognition, music and affective processing, music and development. Research findings are presented through writing, discussion and clinical simulations. Application of research findings through practice and demonstration of therapeutic techniques are addressed.

MUSI 6388. Band Research & Pedagogy. 3 Hours.
Students focus on research methods and applying them in music education applications, particularly in the area of band music and teaching. Students select, conduct in-depth research on, and reflect on clinics and compositions with which they have personal experience through their program of study. The course culminates in the submission of a document that synthesizes the research on and experience with the selected events and musical compositions. This course is to be completed in the third semester of the candidate's program.

MUSI 6398. Research Techniques. 3 Hours.
Students explore the efficient use of standard library materials and bibliographic sources, and the development of effective writing skills.

Oboe (OBOE)

OBOE 5201. Individual Performances-Oboe. 2 Hours.
The course consists of advanced individualized instruction on the oboe. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Osteopathic Medicine (OSTM)

OSTM 7233. 3rd and 4th Year Longitudinal OMM Clerkship. 2 Hours.
Students apply the knowledge and skills learned in the Osteopathic Manipulative Medicine Courses 1-4 by performing osteopathic examinations and manipulative techniques in patient care settings. Students continue to build their skills in osteopathic diagnosis and treatment through online didactic sessions and hands-on practice in clinical situations.

OSTM 7301. Osteopathic Manipulative Medicine 1. 3 Hours.
Students are introduced to the principles and practices unique osteopathic medicine, including osteopathic examination and techniques. Students develop the contextual framework and basic skills necessary for providing osteopathic patient care. Students also critically appraise osteopathic history and philosophy, thereby beginning professional identity formation as an osteopathic physician.

OSTM 7302. Osteopathic Manipulative Medicine 2. 3 Hours.
Students continue their exploration of osteopathic principles and practices as they apply to various clinical topics. Students learn new osteopathic exams and techniques, and receive reinforcement of previously learned ones. Osteopathic concepts of mind-body medicine are investigated.
Prerequisite: OSTM 7301.

OSTM 7303. Osteopathic Manipulative Medicine 3. 3 Hours.
Students continue their exploration of osteopathic principles and practices as they apply to the nervous, immune, head/eyes/ears/nose/throat and musculoskeletal systems. Students learn new osteopathic exams and techniques, and receive reinforcement of previously learned ones. Osteopathic concepts of mind-body medicine are investigated.
Prerequisite: Prerequisite OSTM 7302.

OSTM 7304. Osteopathic Manipulative Medicine 4. 3 Hours.
Students continue their exploration of osteopathic principles and practices as they apply to various clinical topics and patient populations. Students revisit osteopathic philosophy from a whole-patient perspective. Students have an opportunity to consolidate materials and skills from the previous three OMM courses and prepare for national examinations.
Prerequisite: OSTM 7303.

Percussion (PERC)

PERC 5201. Individual Performances-Percussion. 2 Hours.
The course consists of advanced individualized instruction in percussion. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Piano (PIAN)

PIAN 5201. Individual Performances-Piano. 2 Hours.
The course consists of advanced individualized instruction on the piano. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Political Science (POLS)

POLS 5078. Problems in Political Science. 1-3 Hours.
This course is designed for topics in which the subject cuts across two or more areas of concentration. The course may be taken on an individual basis with the permission of the Political Science Department Chair. The course covers the relevant literature and engages students in appropriate research and/or professional practice. May be repeated when topic varies. Variable Credit (1 to 3). Course Equivalents: POLS 5378
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5095. Political Science Internship. 3,6 Hours.
Students complete a 6 hour, 12 month internship. The internship is required for the MPA degree and fulfils a requirement by its accrediting agency NASPAA, the National Association of Schools of Public Affairs and Administration. Enrollment is by permission of the Director of Graduate Studies. Credit (3 or 6). Course Equivalents: PSYC 5395 .

POLS 5301. Scope & Methods of Political Science. 3 Hours.
Students explore political science by examining the nature of politics, the nature of science, the scientific method, and the major questions and methodological trends in the discipline.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5319. Women in Politics. 3 Hours.
Students examine the role of women in politics, including the origins and implications of gender differences, women as political participants, women as political candidates, and women as political office holders.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5330. American Politics. 3 Hours.
Students examine the major debates and scholarship in the field of American politics. The course focuses on political institutions and political behavior with topics that may include Congress, the Presidency, the Judiciary, political ideology, attitudes and beliefs, public opinion, voting behavior, political parties, interest groups, and mass movements. Students study the classics in the American politics literature as well as current research. Students engage in research and writing.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5332. State Governments, Policies, and Politics. 3 Hours.
Students examine the role of state governments, policies, and politics in the American constitutional order. Topics may include federalism; state governmental structure; public policy making and public policies; elections, campaigns, and voting; political behavior; and interest groups and political parties.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5334. Judicial Politics. 3 Hours.
Students examine the American judicial system and American judicial politics. They study the function and operation of the judiciary, including the role and operation of the U.S. Supreme Court, the origins and function of judicial power, and methods of judicial selection.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5336. The United States Presidency. 3 Hours.
Students examine the structure, powers, and place of the presidency in the American constitutional order. Students study changes in presidential power from the founding to the contemporary era.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5337. The United States Congress. 3 Hours.
Students explore the structure, powers, organization, procedures, and operations of the U.S. Congress. Topics may include the selection of legislators; legislative leadership; the influence of lobbyists, political parties, legislative committees, and executives; legislative roles and norms; congressional elections; representation; and policymaking.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5339. American Political Parties. 3 Hours.
Students examine political parties in American politics. Topics may include party formation, ideologies, and party functions in government, elections, and organization.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5340. Political Attitudes & Behavior. 3 Hours.
Students examine individuals' attitudes and behaviors regarding politics. They analyze the determinants, formation, and expression of ideology and partisanship. Students also explore individuals' political participation, particularly voting behavior. The course is research oriented, with an emphasis on pursuing new directions in research.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5360. Seminar in American Politics. 3 Hours.
Students examine the relevant literature pertaining to a specific topic or debate within the field of American politics. Students may repeat this for credit when the topic differs.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5362. Seminar in Political Theory. 3 Hours.
Students examine the relevant literature pertaining to a specific topic or debate within the field of political theory. Students may repeat this for credit when the topic differs.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5364. Media & Politics. 3 Hours.
Students examine the role and impact of the media on U.S. politics. Students study the impact of the media on campaigns and election outcomes, the media as a source of political information, the agenda setting power of the media, the role of the "free press" in a democracy, and citizens' relationship to the media.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5367. Seminar in International Relations. 3 Hours.
Students examine the relevant literature pertaining to a specific topic or debate within the field of international relations. Students may repeat this for credit when the topic differs.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5371. Comparative Politics. 3 Hours.
Students examine the major theories, concepts, and methods of comparative analysis. Topics include the major concepts of comparative politics which may include: political elites, institutions, public policy, development and modernization, elections and political behavior, mass movements, and revolution and political violence.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5372. Seminar in Comparative Politics. 3 Hours.
Students examine the relevant literature pertaining to a specific topic or debate within the field of international relations. Topics may include political development, sustainability, comparative institutions, comparative public policy, transitions to democracy, and opinions and behavior. The seminar may also focus on one or more regions or individual countries. Students may repeat this for credit when the topic differs.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5373. International Relations. 3 Hours.
Students examine the major theories, concepts, and methods of international relations. Specific topics may include conflict and cooperation; the relationship between domestic and international politics; and transnational issues and actors.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5379. Workshop in Teaching Political Science. 3 Hours.
Students examine a variety of topics useful to teaching political science or government courses. Topics may include Texas politics, constitutional issues, current elections, and using technology in the class classroom. Students may repeat the course when topic varies.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5382. Seminar in Public Administration. 3 Hours.
Students examine the relevant literature pertaining to a specific topic or debate within the field of public administration. Students may repeat this for credit when the topic differs.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 5385. Public Policy. 3 Hours.
Students examine the process of public policy formulation, governmental planning, and administrative decision-making, giving special attention to the public administrator as a policy-maker and as one responsible for policy implementation.
Prerequisite: Admission to the MA in Political Science program, MA in History & Political Studies program, 18-Hour Certificate in Political Science program, or departmental approval required.

POLS 6099. Thesis. 1-3 Hours.
Students will make use of appropriate literature and research techniques in the development of the thesis. Variable Credit (1-3). Course Equivalents: POLS 6399 .

POLS 6394. Capstone. 3 Hours.
Students will make use of appropriate literature and research techniques in the development of the capstone project. Course Equivalents: POLS 6098.

Psychology (PSYC)

PSYC 5035. Special Problems in Psychology. 1-3 Hours.
Students engage in an in-depth study in individually selected topics not specifically included in the formal course offerings. Variable Credit (1-3). Course Equivalents: PSYC 5335
Prerequisite: Consent of department chair and instructor.

PSYC 5330. Psychopathology. 3 Hours.
Students examine psychological disorders and review, critically evaluate, and integrate current scientific literature regarding diagnosis, phenomenology, and etiology. Students also explore issues in the application of the current diagnostic system in clinical practice.

PSYC 5331. Seminar in Experimental Psychology. 3 Hours.
Students survey the science of experimental psychology, providing an advanced synthesis of the scientific study of human behavior that includes the biological, perceptual, developmental, and social determinants of behavior, emotion, and cognition.

PSYC 5332. Advanced Social Psychology. 3 Hours.
Students examine social factors that influence individual behavior. Students also develop competency in integrating theoretical perspectives and emerging programs of research within the discipline. Readings include a variety of original sources.

PSYC 5333. Theory and Research In Psychotherapy I. 3 Hours.
Students engage in a comparative analysis of different systems and techniques of psychotherapy. Students also examine the role of therapist, client, and setting, along with ethical principles of psychological practice.

PSYC 5334. Theory and Research In Psychotherapy II. 3 Hours.
Students examine selected advanced systems or techniques of psychotherapy, including group therapy, marital and family therapy, therapy for sexual dysfunction, or others. Content may vary from semester to semester.

PSYC 5336. Advanced Cognitive Psychology. 3 Hours.
Students examine the major psychological issues related to cognition in a seminar-style course. Topics may include attentional processes, memory, language, knowledge representations, decision making, problem solving, and cognitive neuroscience. Students explore the relationship between empirical evidence and theoretical explanations of cognitive processes with the aid of reading assignments in the textbook, current research articles, and class discussions. Students will also specifically focus on the practical applications of cognitive theories and research.

PSYC 5338. Consultation In School Psychology. 3 Hours.
Students examine and apply various methods and techniques of consultation in schools. Best practices according to the National Association of School Psychologists provide the basis for the curriculum. The course has both didactic and field experience components.

PSYC 5339. Advanced School Psychology. 3 Hours.
Students acquire knowledge on the history, theory, delivery models, and techniques underlying the practice of school psychology. Students also examine various historical and contemporary roles of the school psychologist, in addition to a applicable federal and state laws. There is also a field experience aspect to the course.

PSYC 5340. Evidence-Based Child Therapy. 3 Hours.
Students analyze research to identify appropriate treatment for child and adolescent mental illness, focusing on treatments and techniques supported by current empirical knowledge and best-practice parameters. Topics may include cognitive behavioral therapy for child and adolescent depression, exposure therapy for child and adolescent depression, and Parent Child Interaction Therapy for child disruptive behavior.

PSYC 5360. Advanced Physiological Psychology. 3 Hours.
Students examine the biological substrates of behavior, with particular attention given to the effects of psychoactive chemicals.

PSYC 5361. Neuropsychopharmacology. 3 Hours.
Students examine the field of behavioral pharmacology: the systematic study of the effects of drugs on behavior and the way in which behavioral principles can help in understanding how drugs work. Students focus primarily on the neurophysiological mechanisms of action of various psychoactive drugs and on the various neurotransmitter systems within the nervous system.
Prerequisite: Consent of instructor.

PSYC 5370. Academic Assessment and Consultation. 3 Hours.
School psychology graduate students develop the skills to assess the academic skill-sets and functioning of school-age children and adolescents as well as their respective instructional environments. Students in this course develop an increased understanding of the problem-identification and problem-analysis stages of consultation within the context of academic difficulties.
Prerequisite: PSYC 5338.

PSYC 5377. Emotion and Cognition. 3 Hours.
Students examine theory and research in the affective and cognitive sciences. Emotional and cognitive processes studied may include emotional regulation, affective expression, emotional intelligence, attention, memory and problem-solving. Individual differences and diversity in emotions and cognitions are explored.
Prerequisite: Graduate Admission.

PSYC 5379. Ethical Practice in Psychology. 3 Hours.
Students acquire knowledge of ethics, standards, laws, state licensing rules and regulations, and historical foundations of the practice of clinical and school psychology. Students examine case material that features ethical conflicts and controversies and practice the processes to resolve ethical dilemmas.
Prerequisite: Graduate Standing.

PSYC 5380. Psychology of Diversity. 3 Hours.
Students examine the roles and influences of cultural and individual differences in mental health. Although the field of multicultural psychology covers a vast array of topics, students in this course focus specifically on diversity as it applies to the delivery of clinical services. Appropriate assessment, diagnosis, and intervention approaches to psychological work with various clinical populations will be discussed.
Prerequisite: Graduate Standing.

PSYC 5381. Advanced Learning Theory. 3 Hours.
Students examine the processes of learning through a critical discussion of current research and theory in the areas of classical conditioning, operant conditioning, and social and cognitive influences in learning.

PSYC 5382. Advanced Industrial/Organizational Psychology I. 3 Hours.
Students investigate psychological principles as applied to industrial/organizational milieu, focusing on the application of research methodology, psychological assessment, and personality theories to the work environment.
Prerequisite: 6 hrs of graduate Psychology coursework.

PSYC 5383. Advanced Industrial/Organizational Psychology II. 3 Hours.
Students investigate psychological principles as applied to organizational environments, focusing on the application of research methodology, psychological assessment, and social psychological theory to leadership, employee satisfaction and motivation, behavioral analysis and conflict resolution, and intervention in work related stress.
Prerequisite: 6 hours of graduate Psychology coursework.

PSYC 5385. Advanced Health Psychology. 3 Hours.
Students explore the theoretical and conceptual foundations of health psychology, the interactions of biological, psychological, and social factors in health, health promotion and prevention, stress and coping with disease and illness, and recovery and rehabilitation to acute, chronic, and terminal illness, including a variety of specific assessment and intervention strategies. Students are expected to conduct a review the literature and independent research.

PSYC 5387. Advanced Statistics. 3 Hours.
Students develop competencies in the use of statistical methods as tools for inferential hypothesis testing. Topics may include consideration of data screening, effect sizes, and simple effects tests, and an introduction to multiple regression.
Prerequisite: PSYC 3301 or equivalent.

PSYC 5388. Experimental Design. 3 Hours.
Students develop skills that will allow them to design their own scholarly research projects. Students are encouraged to understand that research design often requires finding the right balance between advantages and disadvantages of specific methods. Students familiarize themselves with the current scholarly literature regarding research design and write an independent research proposal that can serve as a thesis or dissertation proposal.

PSYC 5389. Applied Multivariate Statistics for Psychology. 3 Hours.
Students examine statistical analyses commonly used in psychology and other behavioral sciences to advance their knowledge of common and advanced methods. Topics may include multiple regression; multivariate analysis of variance and covariance; path analysis, moderation, and mediation; and exploratory and confirmatory factor analysis.
Prerequisite: Graduate Admission, PSYC 5387 or comparable course.

PSYC 5390. Teaching of Psychology. 3 Hours.
Students review pedagogical approaches and strategies as they apply to teaching psychology in higher education. Topics may include teaching philosophies, textbook selection, syllabus development, best practices in undergraduate psychology education, organization and use of class time, active learning methods, use of instructional technologies, exam construction, and grading models.
Prerequisite: Departmental approval.

PSYC 5392. History and Systems of Psychology. 3 Hours.
(SH Prior Course ID: PSY 592); Students examine the philosophical, theoretical, and paradigmatic antecedents of modern psychology. Students thoroughly investigate important early publications, central figures, and major university centers are studied in detail, and students explore and critique the assumptions that inform influential perspectives within psychology today.

PSYC 5394. Psychometrics. 3 Hours.
Students develop an understanding of the principles of psychometric theory and applications, including reliability, validity, and test construction. Students will thoroughly investigate tests and scales that measure personality and mental health. Limited practicum is required.

PSYC 5395. Assessment of Intelligence and Achievement. 3 Hours.
Students develop competencies in the administration, scoring, interpretation, and reporting of results of the Wechsler Scales and other measures of intelligence, achievement, adaptive behavior, and personality to produce integrated reports. Students receive supervised instruction throughout the duration of the course.
Prerequisite: PSYC 5394 or equivalent.

PSYC 5396. Assessment of Personality and Psychopathology. 3 Hours.
Students develop competencies in the theory, administration, scoring, and interpretation of personality assessment instruments. Students receive supervised instruction throughout the duration of the course. Two separate sections of this course are offered, one focusing on objective measures (e.g., MMPI-2, PAI) and one focusing on projective measures (e.g., Rorschach).
Prerequisite: PSYC 5330.

PSYC 5397. Advanced Developmental Psychology. 3 Hours.
Students engage in an advanced study of growth and development processes throughout the life cycle. Students examine theories and applications of basic research and delve into one of the major topics--such as multicultural aspects of development, cognitive development, social-emotional factors, and physical development--in depth through critical reading of original research.

PSYC 5398. Advanced Child Assessment. 3 Hours.
Students gain in-depth practical experience in the comprehensive assessment of infants, children, and adolescents. Students review a variety of individual testing instruments, including those used to evaluate cognitive, social-emotional, behavioral and executive functioning. Alternative methods of assessment, such as transdisciplinary play-based assessment, dynamic assessment, and curriculum-based measurement, as well as techniques and instruments specifically designed for the evaluation of Autism and other disabled populations, are emphasized.
Prerequisite: PSYC 5395.

PSYC 6099. Thesis. 1-3 Hours.
Students complete a review of the literature, research design, collection of pilot data, and related steps. Students are required to present and defend a research proposal. Variable Credit (1-3). Course Equivalents: PSYC 6399 .

PSYC 6371. Internship in Psychology. 3 Hours.
Students demonstrate their ability to integrate and apply their knowledge in a course designed to be the culmination of the master's level training in applied psychology.
Prerequisite: 30 hours of graduate coursework.

PSYC 6390. Techniques in Psychotherapy. 3 Hours.
This course includes development of Students develop psychotherapy skills and techniques of Motivational Interviewing. Emphasis is on acquisition, mastery, and automaticity of skills and techniques. Co-requisite: PSYC 6391. Co-requisite: PSYC 6391.
Prerequisite: Graduate Admission.

PSYC 6391. Practicum I. 3 Hours.
Students develop interviewing skills in this introduction to psychotherapy and bring together theory and practice as developing psychologists. The first practicum course begins with the assumption that the student has had little to no experience in this domain. Ethical issues related to clinical practice are thoroughly explored. Co-requisite: PSYC 6391. Co-requisite: PSYC 6391.

PSYC 6392. Practicum II. 3 Hours.
Students bring theory and practice together to develop their psychotherapy skills. Students are assigned to practicum sites where they provide therapy to clients with various psychological disorders and problems in living. Students also explore ethical issues in treatment.
Prerequisite: PSYC 6391.

PSYC 6393. Practicum III. 3 Hours.
Students bring theory and practice together to develop their psychotherapy skills. Students are assigned to practicum sites where they provide therapy to clients with various psychological disorders and problems in living. Students also explore ethical issues in treatment.

PSYC 6394. Practicum in Psychometrics. 3 Hours.
Students further develop and apply skills in administration, scoring, interpreting, and reporting of psychological tests in this concluding practicum experience. Students take this practicum near the end of their educational program, with supervised experience intended to prepare the student for the psychological assessment and diagnostic aspects of internship or initial employment.
Prerequisite: PSYC 5394 and PSYC 5395.

PSYC 6395. System Organization, Administration, and Change. 3 Hours.
Students explore local, state, and national educational structures, including school districts and individual schools, as systems with specific challenges. Students expand their knowledge of these systems, including their organization, administration, and climates, while learning systems-change theory and procedures for policy development. Emphasis is placed on the role of the school psychologist within these systems. A problem-solving, collaborative approach to change is emphasized.

PSYC 6396. Practicum in School Psychology I. 3 Hours.
Students develop the theoretical foundation necessary to design and implement intervention programs to promote mental health wellness and resiliency. Students gain direct field experience with the provision of psychological counseling used to assist children. Students also examine ethical issues related to intervention and prevention services.
Prerequisite: PSYC 5339.

PSYC 6397. Practicum in School Psychology II. 3 Hours.
Students bring theory and practice together to continue to develop skills required in practice. This course is designed as the culminating specialist-level, field-based experience. Students develop their skills in school-based practicum sites where they provide a variety of services (e.g., assessment, intervention) under the supervision of both field and university supervisors.
Prerequisite: PSYC 6396.

PSYC 7330. Clinical Psychology Proseminar. 3 Hours.
Students survey the field of clinical psychology, current topics in clinical psychology, and the areas in which clinical psychologists practice and conduct research. Students also examine the research programs and clinical interests of the core faculty in the Clinical Psychology Ph.D. Program. As part of the course, students are expected to begin scholarly work with a faculty member of their choice.

PSYC 7333. Law and Social Psychology. 3 Hours.
(SH Prior Course ID: PSY 733); Students learn to apply social psychological theory and research to the legal system. Students critically examine contentious topics such as recovered memories, false confessions, eyewitness adequacy, death qualification, and the influence of social class in legal settings through careful study of a wide variety of original sources.

PSYC 7335. Law and Psychology. 3 Hours.
(SH Prior Course ID: PSY 735); Students explore historical and contemporary applications of the social sciences to the law. Students thoroughly examine the use of information derived from the science and profession of psychology to shape judicial, legislative, and administrative law.

PSYC 7336. Mental Health Law. 3 Hours.
(SH Prior Course ID: PSY 736); Students examine state and federal constitutional, statutory, and case law regulating mental health professional practice. Topics may include: child abuse/neglect reporting laws, civil commitment, confidentiality and privilege, duty to protect third parties from harm, psychiatric hospitalization of inmates, and state licensing requirements.

PSYC 7339. Developmental Psychopathology. 3 Hours.
Students examine psychological disorders among children and adolescents, as understood through current empirical literature. Students review the ways in which biological, social, and psychological processes interact in the development of—or resistance to—psychopathology by drawing from developmental psychology and general systems theory. Students consider the contextual and developmental influences on child psychopathology when the students review or conduct research. Students also thoroughly consider developmental and contextual factors when assessing and diagnosing childhood psychopathology.

PSYC 7360. Multicultural Psychology. 3 Hours.
Students examine the theoretical and methodological foundations of multicultural psychology as applied to clinical psychology. Students review and critique current research in the field and discuss applications of the course content to their practicum training and placements.

PSYC 7362. Ethics in Clinical Practice. 3 Hours.
Students examine the APA Ethical Principles of Psychologists and Code of Conduct as well as various specialty guidelines and recommendations and their applications to practice, research, and consultation. Students also critically examine the literature on ethics from a variety of original sources. Students examine case material that features ethical conflicts and controversies, and students practice processes to resolve ethical dilemmas.

PSYC 7370. Empirically Supported Treatments. 3 Hours.
Students examine the psychosocial treatments for specific psychological disorders (e.g., depression, panic disorder) that have received substantial empirical support. Students also examine the methodological, practical, and political controversies surrounding the empirically supported treatment movement.
Prerequisite: PSYC 5330 and PSYC 5333.

PSYC 7374. Human Neuropsychology. 3 Hours.
Students examine brain-behavior relationships, including higher cortical functions. Specific consideration is given to the most common neurobehavioral syndromes likely to be confronted in clinical practice, administration of tests that are used to assess neuropsychological functioning, coverage of critical issues in differential diagnoses involving neuropsychological functioning, intervention implications, and scholarly research in clinical neuropsychology.
Prerequisite: PSYC 5330 and PSYC 5360 or PSYC 5395.

PSYC 7377. Cognitive and Affective Bases of Behavior. 3 Hours.
Students examine the intersection of affective and cognitive bases of behavior. Further, students explore the nature of emotion, delineates its components, and examine the roles of emotion in self-control, cognition, well-being, psychopathology, and relationships.
Prerequisite: Graduate Standing.

PSYC 7378. Social and Developmental Bases of Behavior. 3 Hours.
Students survey and integrate two disparate but related fields of psychology—social and developmental psychology. First, students learn core theories and research focuses related to each psychology field. Furthermore, students study theories and research topics to integrate knowledge across the two fields of psychology.

PSYC 7387. Multivariate Statistics in Psychology. 3 Hours.
Students examine the use of multivariate procedures in psychological research. Students use SPSS to conduct regression, MANOVA, discriminant analysis, and factor analyses on psychological data. Additional advanced procedures are reviewed.

PSYC 7388. Latent Variable Modeling. 3 Hours.
Students examine a group of statistical techniques, collectively known as latent variable models, which are used to measure constructs that are not directly observable. Instruction covers the conceptual background and statistical application of these models. Topics may include factor analysis, structural equation modeling, latent class analysis, and latent growth curve modeling.
Prerequisite: PSYC 5387.

PSYC 7392. Topics in Clinical Psychology. 3 Hours.
(SH Prior Course ID: PSY 792); Students examine in-depth selected topics in clinical psychology with content varying depending on the interests of faculty and students.

PSYC 8099. Dissertation. 1-3 Hours.
Advanced research in clinical psychology. Prerequisites: Consent of Clinical Training Committee. Variable Credit (1-3). Course Equivalents: PSYC 8399 .

PSYC 8110. Internship I. 1 Hour.
Students engage in advanced clinical training onsite at their clinical internship. Course Equivalents: PSYC 8010, PSYC 8390
Prerequisite: PSYC 8382 and PSYC 8383.

PSYC 8111. Internship II. 1 Hour.
Students engage in advanced clinical training onsite at their clinical internship. Course Equivalents: PSYC 8011, PSYC 8391
Prerequisite: PSYC 8390 and consent of Clinical Training Committee.

PSYC 8112. Internship III. 1 Hour.
Students engage in advanced clinical training onsite at their clinical internship. Course Equivalents: PSYC 8012, PSYC 8392
Prerequisite: PSYC 8390.

PSYC 8360. Forensic Assessment I. 3 Hours.
Students examine issues related to conducting assessments for the criminal courts. Students review and critique current research in forensic psychology, as well as developing case law. Emphasis is placed on constructing the written report and on the ethical issues often faced in the forensic forum. This course will include a practicum component in which students perform forensic assessments with the instructor.

PSYC 8361. Forensic Assessment II. 3 Hours.
Students continue in their development of skills in forensic assessment with an emphasis on the civil case issues (e.g., juvenile evaluations, personal injury, and child custody). Students review current research in forensic psychology, as well as developing case law. Additionally, students develop competencies in expert testimony in the courtroom, and participate as witnesses defending a case they have completed in a mock trial exercise.
Prerequisite: PSYC 8360.

PSYC 8381. Beginning Doctoral Practicum. 3 Hours.
Students observe treatment under a peer supervisor. Students perform mock interviews under the supervision of the faculty instructor with the assistance of a peer supervisor. Students acquire skills in interviewing, mental status examination, suicide assessment, psychological diagnosis, and treatment planning. Ethical and multicultural issues will be explored in depth.
Prerequisite: PSYC 5330.

PSYC 8382. Doctoral Clinical Practicum I. 3 Hours.
Students deliver psychological services at the Psychological Services Center operated by program faculty or a related practicum site. Students attend a group supervision session emphasizing either psychological assessment and integrative report writing or psychotherapy. Students have practicum experiences that allow them to practice assessments or therapy skills under supervision from a licensed psychologist. Students will continue to enroll in this course for three semesters (9 hours).

PSYC 8383. Doctoral Clinical Practicum II. 3 Hours.
Students deliver psychological services at the Psychological Services Center operated by program faculty or a related practicum site. Students attend a group supervision session emphasizing either psychological assessment and integrative report writing or psychotherapy. Students have practicum experiences that allow them to practice assessments or therapy skills under supervision from a licensed psychologist. Students will continue to enroll in this course for three semesters (9 hours).

Public Administration (PADM)

PADM 5001. Independent Study. 1-3 Hours.
Students examine a topic related to public administration or disaster management. Under the direct supervision of a faculty member, the faculty and student formulate a course of study which could include reviewing relevant literature, engaging in research, exploring professional practice, or conducting other forms of inquiry appropriate to the course of study. The course may be repeated for credit. Variable Credit (1 to 3).
Prerequisite: Graduate Standing and Department Approval.

PADM 5002. Public Service Internship. 3,6 Hours.
Students engage in supervised work that provides on-the-job public administration experience within a public or nonprofit organization. Students may earn 3 credit hours for 240 hours of field experience or 6 credit hours for 480 hours of field experience. Under the supervision of a faculty internship coordinator, students apply the theoretical and practical knowledge acquired in their MPA core coursework to their field experience. Credit (3 or 6).
Prerequisite: Graduate Standing and Department Approval.

PADM 5003. Disaster Management Internship. 3,6 Hours.
Students engage in supervised work that provides on-the-job disaster management experience within a public, non-profit, or private organization. Students may earn 3 credit hours for 240 hours of field experience or 6 credit hours for 480 hours of field experience. Under the supervision of a faculty internship coordinator, students will apply and reflect upon the theoretical and practical knowledge acquired in their MPA concentration coursework to their field experience in a series of written assignments. Credit (3 or 6).
Prerequisite: Graduate Standing and Department Approval.

PADM 5301. Scope and Methods of Public Administration. 3 Hours.
Students examine the quantitative and qualitative research methods used in modern political science. Course Equivalents: PADM 5377
Prerequisite: Graduate Standing.

PADM 5302. Dynamics of Public Administration. 3 Hours.
Students examine the history and theoretical basis of public administration and the basic issues that confront it, including administrative responsibility and ethics, and the formulation and implementation of public policy. Course Equivalents: PADM 5381
Prerequisite: Graduate Standing.

PADM 5310. Organizational Theory and Behavior. 3 Hours.
Students examine the major topics, issues, and contributions in the literature on organizations, their structures and functions, and the behavior of people in them, with emphasis on applications to government and nonprofit organizations. Students explore examples of organizations at federal, state, and local levels of government and a variety of nonprofit organizations, such as hospitals, social service agencies, and faith-based/non-governmental organizations. Course Equivalents: PADM 5384
Prerequisite: Graduate Standing.

PADM 5311. Public Management. 3 Hours.
Students examine and evaluate current public management techniques and theories with a specific focus on organizations in the public and nonprofit sectors. Topics may include theories related to the field of public management, the political context of public management, contracting out, networking, strategic management and planning, performance management, and public participation. Course Equivalents: PADM 5389
Prerequisite: Graduate Standing.

PADM 5312. Public Budgeting and Finance. 3 Hours.
Students examine the public budgetary process and related financial management techniques. Course Equivalents: PADM 5387
Prerequisite: Graduate Standing.

PADM 5313. Human Resource Management. 3 Hours.
Students examine the evolution and context of human resource management. Specific topics include: human resources planning, recruitment and selection, performance evaluation, compensation, promotion and benefits, staff development, labor relations, discipline, and control structures. Course Equivalents: PADM 5386
Prerequisite: Graduate Standing.

PADM 5314. Ethics in Government. 3 Hours.
Students examine the classical and contemporary literature on the role and practice of ethics in public administration. Students study contemporary empirical research, case studies, and ethical problem solving around questions of right action and good conduct in public organizations and public policy making. Course Equivalents: PADM 5388
Prerequisite: Graduate Standing.

PADM 5315. Program Evaluation. 3 Hours.
Students examine techniques for the collection, manipulation, interpretation, and presentation of data and information in public policy/management processes, and demonstrate application of the techniques using computer technology. The course covers the relevant literature and engages students in appropriate research and/or professional practice. Course Equivalents: PADM 5383
Prerequisite: Graduate Standing.

PADM 5319. Special Topics in Public Administration. 3 Hours.
Students examine literature pertaining to a specific topic, debate, or problem related to the organization, administration, and management of public and non-profit organizations. Students may repeat this course for credit when topics differ. Course Equivalents: PADM 5398
Prerequisite: Graduate Standing.

PADM 5340. Emergency Management. 3 Hours.
Students examine the system of emergency management in the U.S, applying public administration frameworks of budgeting, human resources, intergovernmental relations, and decision making to analyze and evaluate emergency management responses. Course Equivalents: PADM 5391
Prerequisite: Graduate Standing.

PADM 5341. Decision Making in Public Administration. 3 Hours.
Students examine theories and practical applications of administrative decisions. In public administration, decisions are often made under conditions of uncertainty. Students evaluate strategies used by public and nonprofit managers to reduce risk, and they create their own strategies through a series of simulation exercises. Course Equivalents: PADM 5392
Prerequisite: Graduate Standing.

PADM 5342. Global Disaster Politics. 3 Hours.
Students examine the politics that underpin the phases of disaster management. Using a comparative analytical approach, students draw inferences and lessons about the effects of politics on different localities and contexts around the world. Course Equivalents: PADM 5390
Prerequisite: Graduate Standing.

PADM 5343. Disaster Resilience. 3 Hours.
Students examine theories and conceptual frameworks of disaster resilience. Students evaluate approaches to the measurement of resilience and apply these to create a disaster resilience assessment of a community. Course Equivalents: PADM 5393
Prerequisite: Graduate Standing.

PADM 5359. Special Topics in Disaster Management. 3 Hours.
Students examine literature pertaining to the core concepts and principles of emergency and disaster management as they relate to the organization, administration, and/or management of public and/or non-profit organizations. Students may repeat this course for credit when topics differ. Course Equivalents: PADM 5399
Prerequisite: Graduate Standing.

PADM 5361. Managing Complex Policy Problems. 3 Hours.
Students explore how organizations manage complex policy problems. They apply concepts from complexity theory, system dynamics, governance, and networks to develop new perspectives and novel solutions to complex social and policy problems. Students evaluate management approaches in policy areas such as disaster management, drug trafficking networks, risk management, and diversity.
Prerequisite: Graduate Standing.

PADM 5362. Managing the Nonprofit Organization. 3 Hours.
Students explore the organizations, groups, and activities that make up the nonprofit sector. They apply the principal theories, knowledge, competencies, and skills of nonprofit management to analyze management practices in nonprofit organizations.
Prerequisite: Graduate Standing.

Reading (READ)

READ 5105. Problems In Reading. 1 Hour.
This course will examine problems in reading.

READ 5304. Multisensory Language Learning. 3 Hours.
Students examine theories, concepts, and research-based pedagogical implications for multisensory language learning. Students conceptualize and implement multisensory strategies for teaching reading to students with dyslexia and other special needs.

READ 5306. Survey Of Reading. 3 Hours.
This course provides historical and philosophical perspectives in literacy instruction. The results of research in such areas as emergent literacy, cueing systems and comprehension, reading interests, current literacy methodologies, and diversity of learners in schools are examined for application in classroom practice.

READ 5307. Literacy Assessment & Instructional Strategies Practicum I. 3 Hours.
This course provides an opportunity for an in-depth study of current approaches to assessment as a foundation for literacy instruction. In supervised experiences teachers will learn how to use a range of formal and informal assessment tools and methods to diagnose and assess reading and writing development, to guide instruction, and to involve the learner in self-assessment.
Prerequisite: READ 5306.

READ 5308. Literacy Assessment & Instructional Strategies Practicum II. 3 Hours.
This course offers an in-depth study of the assessment of struggling readers and writers. In supervised settings teachers will use various formal and informal individual assessment procedures and instruments. These assessments will direct instructional strategies and methodology. Candidates develop individual case studies.
Prerequisite: READ 5307.

READ 5309. Literacy Instruction in Grades EC-4. 3 Hours.
Candidates explore research-based instructional practices in emergent literacy, cueing systems and comprehension, reading interests, current literacy methodologies, and diversity of learners in schools. This course is designed for graduate students admitted to an authorized initial alternative teaching certification program. This course does not count toward the reading master's degree program.

READ 5310. Literacy Instruction in Grades 4-8. 3 Hours.
This course explores research-based instructional practice in middle school, word analysis skills, current literacy methodologies, and diversity of learners in schools. This course is designed for graduate students admitted to an authorized initial alternative teaching certification program. This course does not count toward the reading master's degree program.

READ 5311. Literacy and Learning in Grades 8-12. 3 Hours.
This course is for prospective and practicing teachers and focuses on he literacy strategies that enable 8-12 students to comprehend, engage, and make use of the more challenging content and texts in all 8-12 subject areas. Candidates will be involved in class lectures, discussion, small group activities, written assignments, oral presentations, and tests.

READ 5315. Language Arts: Theory and Instruction. 3 Hours.
This course provides theories and practices for teaching oral and written English, integrating the processes of reading, writing, listening, and speaking in classrooms, and the integration of language arts across the curriculum.

READ 5316. Language Arts: Research Applications. 3 Hours.
This course is a companion course to READ 5315 and provides research applications, as well as theory and practices for oral and written English. Emphasis is placed on integrating the process of reading, writing, digital composition, listening, speaking, viewing and representing in classrooms, and the integration of language arts across the content area curriculum.
Prerequisite: Acceptance to Sam Houston Writing Project.

READ 5317. Politics of Literacy. 3 Hours.
Students examine literacy as a political issue from historical, social and theoretical perspectives. The role of advocacy in literacy instruction and policy is emphasized.

READ 5325. Improvement of Literacy in Secondary Schools & Adult Pops. 3 Hours.
This course is designed to prepare secondary classroom teachers and reading specialists for teaching reading to secondary school and adult populations. Content includes characteristics of secondary students and adult learners, language patterns and structures common to various subject-area texts and techniques to teach reading and study strategies in secondary and adult classrooms.

READ 5330. Literature and Instructional Materials in Reading Programs. 3 Hours.
This course prepares specialized reading professionals to teach classic and contemporary children's and young adult's literature and easy reading fiction and nonfiction at all levels. Theories and practices that stimulate student interest in reading, promote reading growth, foster appreciation for the written word and increase the motivation of learners to read widely and independently for information, pleasure, and personal growth are emphasized.

READ 5335. Cognition & Emergent Literacy. 3 Hours.
This course provides an opportunity to examine language, cognition, and pre-reading skills of young children. It enables the student to understand, develop, and evaluate language and reading programs for young children.

READ 5340. Practicum of Literacy Asmt & Instrumental Strat II-Secd Pops. 3 Hours.
Students study current approaches to assessment as a foundation for literacy instruction and intervention design for struggling readers and writers in grades 7-12 who might experience dyslexia and/or related disorders. Students learn how to use a range of formal and informal assessment tools and methods to diagnose and assess reading and writing development. This course has 50+ field experience hours with secondary students.
Prerequisite: READ 5307.

READ 6088. Special Topics in Reading. 1-3 Hours.
This course will provide the opportunity for relevant and timely workshops and independent research and study. Course Equivalents: READ 5320 .

READ 6089. Independent Studies in Reading. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3).
Prerequisite: Consent of Department Chair.

READ 6310. Administration and Supervision of Literacy Programs. 3 Hours.
This course examines the organization, development, implementation and improvement of reading and writing programs in public schools grade K through 12 at classroom, building and district levels.
Prerequisite: READ 5307 and/or co-enrolled in READ 5340.

READ 6320. Research and Literacy Leadership. 3 Hours.
This course provides a field internship for Reading Specialist candidates that focuses on reading and writing curriculum and instructional development, professional development of literacy teachers, and leadership in literacy assessment at the school and district levels. The internship provides students opportunities to apply the theories and principles of learning throughout the reading masters program. Candidates must be enrolled in their final semester of coursework for the reading masters degree; the candidate's portfolio will be developed as part of this capstone course.
Prerequisite: READ 5307 and READ 5340.

READ 7100. Seminar In Literacy Leadership. 1 Hour.
Individual seminar topics will be presented monthly and will change for each semester in which candidates are enrolled. Topics will cover a wide variety of issues of interest to literacy educators. May be repeated for credit for a total of three credits.
Prerequisite: Admission into the Ed.D. program in Literacy Leadership.

READ 7387. Directed Topics In Reading. 3 Hours.
This course will provide the doctoral student an opportunity to engage in detailed and in-depth study of a program or problem in reading education. The student will work under the supervision of a doctoral faculty member and will be expected to produce a written product or presentation.

READ 7732. Literacy Pedagogy for Adult Learning. 3 Hours.
Issues, research and publications on the methodologies dedicated to the teaching of adults about literacy at the university level, whether in developmental reading or writing classes or enrolled in teacher education classes will be explored.
Prerequisite: READ 7300.

Real Estate (REAL)

REAL 5350. Real Estate Debt. 3 Hours.
Students apply concepts, techniques, and instruments integral to the financing of real estate. Students perform the application of discounted cash flow, net present value, internal rate of return, and amortization fundamentals to real estate analysis. Mortgage debt structures and calculations involving loan origination costs, servicing fees, and prepayment penalties are explored.
Prerequisite: 42 Credit Hours.

REAL 5351. Real Estate Equity. 3 Hours.
Students perform calculations related to real estate investment analysis. Students use a framework for making real estate investment decisions based on key financial returns/metrics and risk assessment. Students focus on mastering cash flow and proforma forecasting to inform real estate investment decisions involving acquisitions, development, and dispositions.

REAL 5352. Real Estate Market and Development Feasibility Analysis. 3 Hours.
Students examine the component parts of the real estate development process from idea inception; through project site selection, design, regulatory framework, market analysis, and financial feasibility analysis.

REAL 5365. Real Estate Law. 3 Hours.
Students examine the legal aspects of real estate, including the legal principles and legal instruments used in real estate transactions.

Saxophone (SAXO)

SAXO 5201. Individual Performances-Saxophone. 2 Hours.
The course consists of advanced individualized instruction on the saxophone. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Scientific Foundations (SFOM)

SFOM 7801. Scientific Foundations. 8 Hours.
Students integrate the foundational science principles required for subsequent integrated systems courses, including microbiology, physiology, pharmacology, genetics, biochemistry, pathology, and molecular biology. Students apply critical thinking skills of the sciences using case-based scenarios.

Secondary Education (CISE)

CISE 7390. Assessment Of Mathematics Learning. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include classroom assessment, standardized tests, and assessment instruments for research in mathematics education.

CISE 7393. Research In Mathematics Education. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include selecting a research topic, research instruments, research statistics, and writing the paper.

CISE 7395. Current Issues In Mathematics Education. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include curriculum, textbooks, standards, accountability, parental involvement, legal issues, ethics, and testing.

CISE 7396. Theories Of Learning Math. 3 Hours.
This course will be one of four education classes used in the doctoral program in mathematics education. Topics will include theories of learning mathematics, information processing, cognitive theories, and constructivist theories.

Security Studies (SCST)

SCST 5320. Emergency Management Integration I. 3 Hours.
This course emphasizes efforts established to enhance the nation's capability to prevent, prepare for, respond to, mitigate, and recover from critical domestic incidents. Utilizing the all-hazard approach against natural, human-induced, and technological crises, this course highlights integration processes in command and control, planning, interoperable communications, community preparedness and participation, resource assessment, intelligence and information sharing, mutual aid systems, and interagency coordination in crisis. In this course, post 9/11 era threats and hazards are analyzed within a framework of resilience building at tribal and local community level.

SCST 5335. Global Perspectives in Homeland Security. 3 Hours.
Course will focus on meeting the changing demands of security in a global environment. Discussion emphasizing the understanding of how to design, implement, and intergrate the security function in an ever-changing world and the impact of major economic, demographic, and technological trends on developing strategies for security innovation and growth. Course Equivalents: CRIJ 5335 .

SCST 5336. Law and Ethics in Homeland Security. 3 Hours.
Focus will be on how the law impacts security in many diverse ways. Discussion will emphasize the concept of criminal intent, early criminal law and the emergence of law enforcement and private security, the difference between public policing and private security, and an overview of legal terms and issues with which the security manager must address. Course Equivalents: CRIJ 5336 .

SCST 5338. Security and Management. 3 Hours.
Students focus on managing the security organization and its human resources. Discussion and on results-oriented security management, the basic foundations of security, the importance of technology, and specialized security applications are addressed. Course Equivalents: CRIJ 5388
Prerequisite: Three hours of graduate-level Security Studies.

SCST 5339. Foundations of Homeland Security. 3 Hours.
Students focus on philosophies, tactics, and targets of terrorist groups, discussion of emerging terrorism trends and the roles of the private sector, and U.S. Government in responding to and preventing terrorism. Students also gain insight on how terrorism influences U.S. Foreign Policy. Course Equivalents: CRIJ 5339 .

SCST 5340. Intelligence and Counterintelligence in National Security. 3 Hours.
Students focus on the roles of various national intelligence collection platforms and intelligence analysis, how national policy makers utilize intelligence, and Congress' oversight role. Counterintelligence is introduced as an example of an external threat to homeland security. Course Equivalents: CRIJ 5340 .

SCST 5341. Principles of Intelligence Analysis. 3 Hours.
Students focus on new and alternative methods for conducting intelligence analysis as well as examine how analysis contributes to the overall understanding of intelligence and formulation of US national security policy. Analytic modeling techniques and the psychology of analysis in terms of analytic biases are covered. Course Equivalents: CRIJ 5341 .

SCST 5342. Law Enforcement Intelligence and Crime Analysis. 3 Hours.
This course foundation is the diversity of mission and roles of crime analysts at the local, state and federal levels. Traditional crime analysis functions are reviewed, including temporal and spatial plots. linking modus operandi, and crime distribution forecasting. Additionally, the dynamics of both terrorist and criminal intelligence functions are emphasized, including database linkages, role of Federal Data Fusion Centers, the National Information Sharing infrastructure, and the elements of systematic threat assessment. Course Equivalents: CRIJ 5342 .

SCST 5344. Unconventional Threats. 3 Hours.
This course will focus on a range of threats (some of which exist and some of which are emerging) that impact, or are likely to impact, homeland security in significant ways. These threats will be addressed within the framework of three categories of threats based, respectively, on direct human action, technology, and the environment. Topics to be addressed will include: 1) terrorism, destabilizing crime, mass global migration (human-based threats); 2. cyber threats, engineered biological threats, nuclear warfare, and global supply chain vulnerabilities (technology-based threats); 3: limitations on access to natural resources, climate change, novel diseases, and food security (environmental-based threats).
Prerequisite: SCST 5339.

SCST 5346. Information and Intelligence Management. 3 Hours.
This course explores interoperability, data fusion, and integrative decision making protocols and systems for Homeland Security information and intelligence sharing in the overarching process of managing the flow of information and intelligence across all levels and sectors of government and the private sector. The content to support the rapid identification of emerging terrorism-related threats and other circumstances requiring intervention by government and private sector authorities.

SCST 5348. Critical Infrastructure Protection. 3 Hours.
This course provides an overview of the policy, strategy, and practical application of critical infrastructure security and resilience from the All-Hazards perspective. Students explore challenges and opportunities associated with: infrastructure-related public-private partnerships, information sharing, risk analysis and prioritization, risk mitigation, performance metrics, program management, incident management, and investing for the future.

SCST 5396. Research Methods - Homeland Security Studies. 3 Hours.
This course builds student competencies in key research philosophies, principles, and techniques which will enable successful design and implementation of research relevant to the field. Students will be exposed to various ways of managing, analyzing, and displaying data. The course will prepare students to establish an applied research portfolio and to compose and submit an applied research project to a journal or conference in Homeland Security.

SCST 6093. Independent Studies in Security Studies. 1-3 Hours.
This course is designed to give students flexibility to pursue study of a topic under the supervision of a faculty member where the topic will be studied more deeply than in a traditional course or where there are no available courses on the topic. Credit 1-3.
Prerequisite: Approval of the Department Chair and the instructor directing the readings.

SCST 6099. Thesis. 1-3 Hours.
This course encompasses completion and defense of the Thesis. (Student must be registered in SCST 6099 for the semester in which they receive the MS in Homeland Security degree.) Variable Credit (1-3).
Prerequisite: SCST 6398.

SCST 6320. Emergency Management Integration II. 3 Hours.
This course highlights the coordination and support of federal, territorial, state, regional, tribal and local efforts and resources used for complex incidents such as terrorist attacks, major disasters, or other high security and high consequence events. Specifically, federal coordinating structures, federal resource requests and deployment strategies, and regulations pertaining to federal assistance will be discussed. The role, function, and activation of federal operation centers, state level emergency operation centers, county emergency operation centers, as well as Multiagency Assistance Compacts (MACs) in support of tribal and local emergency response efforts will be analyzed.
Prerequisite: SCST 5320.

SCST 6360. Leadership in Homeland Security and Emergency Management. 3 Hours.
Students examine the complexity of leadership in crises. They discern between decision-making models in naturalistic settings and evaluate cases and scenarios that highlight characteristics of successful leaders in events with high consequence outcomes. Students analyze organizational, political, and socio-cultural interdependencies that influence leadership in Homeland Security and Emergency Management (HSEM) settings and acquire stategies on how to reduce security risks through adoption of various decision support systems.
Prerequisite: SCST 5344.

SCST 6362. Critical Infrastructure Risk Management. 3 Hours.
This course addresses the complexities of critical infrastructure security and resilience from a "system-of-systems" perspective. Students explore the notion of a system and how it applies to explicate how our critical infrastructures function and how they can fail or perform less than optimally under stress. The learner is provided with tools to uncover and manage risks affecting systems.
Prerequisite: SCST 5348.

SCST 6364. Cybersecurity. 3 Hours.
This course focuses on policy, strategy, and the operational environment of cyberspace in the context of critical infrastructure security and resilience. Topics include: challenges presented by the 21st century risk environment, cyber-risk analysis and prioritization, government-private cybersecurity partnerships, and future cyber risks.
Prerequisite: SCST 5348.

SCST 6365. Doctrine and Praxis in Homeland Security. 3 Hours.
This is a capstone experience research project containing a portfolio of reflexive elements on Homeland Security Doctrine, as well as an applied research product exploring contemporary topics in Homeland Security Studies of relevance to students? professional practice. The research product will reflect scholarship standards making it suitable for future presentation at a professional Homeland Security conference, symposium, or workshop.

Prerequisite: SCST 5396.

SCST 6370. Internship in Security Studies. 3 Hours.
This course is designed to provide students with an opportunity to synthesize theory and practice. It requires a placement of a minimum of three months at 40 hours per week in an approved criminal justice, critical infrastructure, or private security setting.
Prerequisite: Consent of the Department Chair or Internship Director.

SCST 6394. Special Topics in Security Studies. 3 Hours.
This course offers students the opportunities for structured coursework on emergent issues or other topics for which courses do not exist in the course catalog.

SCST 6398. Thesis Practicum. 3 Hours.
This course encompasses an overview of research strategies; principles of research writing; and procedures for initiating, executing and completing a thesis. The course culminates in the preparation and approval of a prospectus.
Prerequisite: 12 semester credit hours of graduate work.

Sociology (SOCI)

SOCI 5099. Graduate Readings in Sociology. 1-3 Hours.
Students pursue an independent study of subjects not covered in the regular graduate curricula. Topics may cover special subject matter related to a thesis. Variable Credit (1-3). Course Equivalents: SOCI 5399
Prerequisite: Graduate standing or consent of instructor.

SOCI 5100. Proseminar in Sociology. 1 Hour.
Students prepare for graduate studies in sociology and are provided with the tools and resources to be successful graduate students.
Prerequisite: Graduate Standing.

SOCI 5310. Seminar In Sociological Theory. 3 Hours.
Students study the most significant 19th and 20th century developments in sociology with emphasis placed on the relevance of classic sociological theory in the formation and development of contemporary sociological theory. Students explore the characteristics and origins of many major sociological schools of thought (e.g., Neo-Marxism, Critical Theory, Interactionism, Functionalism and Postmodernism) and accounts of these paradigms are presented together with their theoretical ramifications.
Prerequisite: Graduate standing or consent of instructor.

SOCI 5312. Seminar in Sociological Research. 3 Hours.
Students examine the advanced study of logic, principles, and procedures involving techniques of design data collection and organization, analyses and interpretation for qualitative and quantitative sociological research.
Prerequisite: Graduate standing or consent of instructor.

SOCI 5313. Qualitative Methods. 3 Hours.
Students study a wide range of qualitative sociological methods (e.g., in-depth interviews, participant observation, and content analyses) and gain many practical skills such as collecting and analyzing data and writing qualitative research.

SOCI 5314. Social Statistics. 3 Hours.
Students develop mastery of various statistical techniques used to analyze survey data (e.g. descriptive and inferential statistics, cross tabulation, ANOVA, correlation and regression). Students learn the logic, interpretation, and assumptions of each statistical model with an additional emphasis on the application of these techniques. Course Equivalents: SOCI 5414
Prerequisite: Graduate standing or consent of instructor.

SOCI 5319. Sociology of Entrepreneurship. 3 Hours.
Students examine the role of the entrepreneur in modern society and ways modern society influences entrepreneurship in communities, regions, and nations. Topics may include entrepreneurial risk, opportunity, innovation, and social entrepreneurship, and students will critically examine how entrepreneurial behavior changes across social boundaries like race, gender, and culture.
Prerequisite: Graduate Standing.

SOCI 5320. Sociology of Community. 3 Hours.
Students study the organization, structures, groups and interaction pertaining to communities. Students examine social forces within communities, patterns of change and the relationship with society and are introduced to alternative theoretical perspectives for analyzing community as well as views on the current conditions and future perspectives of communities in the United States and in other regions of the world.
Prerequisite: Graduate standing or consent of instructor.

SOCI 5321. Cultural Sociology. 3 Hours.
Students examine culture from the sociological perspective and consider both classic and modern theories of culture. Students also review major sociological methods of cultural analysis, the application of theories, and the analysis of socio-cultural phenomena.

SOCI 5322. Seminar In Medical Sociology. 3 Hours.
This course provides graduate students with the conceptual and substantive knowledge of the field of medical sociology. The course focuses on salient sociological issues in health and medicine, such as the social construction of health and illness, social inequalities in health and health care, medicalization, the health profession, the health care system, and bioethics. Special attention is paid to the roles of social, cultural, and institutional factors in understanding health and health care issues in the United States and in other countries.
Prerequisite: Graduate Standing.

SOCI 5324. Seminar in Social Change and Development. 3 Hours.
Students examine a variety of theories of development that explain how and why inequality between and within nations is produced and reproduced. Students learn to think critically about the impacts of the development and globalization process, as well as neoliberalization and free trade, on people and environments throughout the world. Students explore strategies that may contribute to the construction of a world that is more equitable, socially just, and environmentally sustainable than the current one.
Prerequisite: Graduate standing or consent of instructor.

SOCI 5325. Seminar in Food and Society. 3 Hours.
Students examine the production, distribution, and consumption of food from a sociological perspective with a particular focus on the analysis of the contemporary food systems. Students learn to critically analyze issues surrounding food and society through a sociological lens.

SOCI 5331. Sociology of The Family. 3 Hours.
Students explore the family as a social institution and examine functional, critical, and interactionist approaches to the family. Topics may include historical shifts in the institution and interpersonal dynamics within families.
Prerequisite: Graduate standing or consent of instructor.

SOCI 5333. Sociology of Religion. 3 Hours.
Students examine how religion operates in non-industrial and industrial societies using a cross-cultural perspective. Topics may include religious beliefs, religious rituals, group religious experience, and the religious community.
Prerequisite: Graduate standing or consent of instructor.

SOCI 5337. Gender and Society. 3 Hours.
Students consider the social construction of gender and obtain a framework to critically examine how it operates in society Students examine how gender is linked with inequality in the United States.

SOCI 5338. Sociology of Disasters. 3 Hours.
Students apply sociological analyses to the investigation of disasters and examine disasters in terms of their origins and social impacts. The course may also explore the social dynamics that create risk of, and vulnerability to, disasters.

SOCI 5350. The Community Practitioner. 3 Hours.
Students examine the role of a community development practitioner and investigate theories and techniques used in the field to build community and create long-lasting social and institutional change. Students evaluate "best practices" and their impact on community policy.
Prerequisite: SOCI 5320.

SOCI 5351. Seminar in Environmental Sociology. 3 Hours.
Students gain a thorough background in the major theoretical perspectives regarding environmental sociology, which enables them to view environmental issues from alternative positions and to formulate possible solutions to contemporary environmental problems. Additional topics may include the social construction of the environment and on environmental problems and solutions.

SOCI 5353. Seminar in Race And Ethnic Studies. 3 Hours.
Students obtain an in-depth examination and critique of important monographs and journal literature dealing with the social life of American minorities. Topics may consider, ideologies, inequality, structural forces and changes characteristic of the social life of comparative minority groups. Students identify sociological propositions reflected in the discerned patterns of interaction in selected institutions in contemporary American society.

Prerequisite: Graduate standing or consent of instructor.

SOCI 5355. Seminar in Social Inequality. 3 Hours.
Students examine contemporary class, status and power hierarchies using both contemporary and classical social theory of inequality. Students engage with empirical research pertaining to placement in these hierarchies on the basis of birth-achieved statuses such as sex, race, and class origin.

SOCI 5376. Applied Research Methods. 3 Hours.
Students apply the methodological concepts that were learned in SOCI 5312 to propose empirical analyses of social problems. Specific topics may consider sample selection and unit of analysis, types of data collection, and analytical techniques.
Prerequisite: Graduate standing or consent of instructor.

SOCI 5378. Techniques of Research Proposal Writing in Social Sciences. 3 Hours.
Students obtain a critical understanding of the principal technical and theoretical skills necessary for the development of research projects in the social sciences and research grant writing. Students investigate the primary assumptions of qualitative and quantitative research and consider their scopes and limits. Topics may include epistemological characteristics of major paradigms in the social sciences, analytical techniques necessary for the preparation of research proposals, identification of research questions, development of justifications, and the development of analytic designs.

SOCI 5380. Social Impact Assessment and Program Evaluation. 3 Hours.
Students gain an overview of the field of social impact assessment and program evaluation and are exposed to hands-on experience through a practical case study. Specific topics may include basic knowledge, as well as technical skills, related to conducting a social impact assessment and program evaluation.

SOCI 5384. Seminar in Economy and Society. 3 Hours.
Students examine the effects of economic change on the organization of society and social relations. Topics may include the consequences of globalization and neoliberalization.
Prerequisite: SOCI 5310.

SOCI 5386. The Sociology of Aging. 3 Hours.
Students explore sociological theories of aging from historical, demographic, comparative, social psychological and structural perspectives. Students also examine contemporary social problems facing older adults. Additional topics may consider similarities and differences across, gender, race/ethnicity, and social class using the life course perspective.

SOCI 6098. Thesis Practicum. 1-3 Hours.
Students successfully develop a Thesis Prospectus and select a thesis committee. Variable Credit (1-3). Course Equivalents: SOCI 6398 .

SOCI 6099. Thesis. 1-3 Hours.
Students complete and successfully defend their Thesis. The student must be enrolled in SOCI 6099 during the semester in which the master's degree is to be completed. Variable Credit (1-3). Course Equivalents: SOCI 6399 .

SOCI 6360. Seminar In Sociology. 3 Hours.
Students examine a substantive area and/or sociologically significant issue not covered in other departmental offerings. Topics may be influenced by current innovations in the field or significant world events. May be repeated.
Prerequisite: Graduate standing or consent of instructor.

Spanish (SPAN)

SPAN 5060. Special Topics in Spanish. 1-3 Hours.
Students examine Hispanic culture, including the US Latino population. Topics vary and may include specific authors, themes, literary genres, and/or sociopolitical issues. The course may be repeated for credit as content varies. Variable Credit (1 to 3).
Prerequisite: Graduate status in Spanish.

SPAN 5331. Seminar in Comparative Spanish Art and Culture. 3 Hours.
Students conduct an in-depth comparison of cultural representations, both visual and aural, across the Hispanic world. Topics vary from semester to semester. The course may be repeated for credit as content varies. Students develop Spanish language ability and cultural consciousness.
Prerequisite: Graduate status in Spanish.

SPAN 5332. Spanish Golden Age Literature. 3 Hours.
Students conduct an in-depth study of the Spanish Golden Age (1500-1700), including authors, works, and concepts (e.g., Renaissance, Baroque, Picaresque). Topics may include poetry, plays, and other genres of the era.
Prerequisite: Graduate Status in Spanish.

SPAN 5333. Spanish American Literature: Pre-European to Independence. 3 Hours.
Students examine the literary cultures of Spanish America from the Colonial to the Post-Colonial period (end of the 19th century). Topics may include national literatures, cultural backgrounds, ethnic, linguistic, and identity issues.
Prerequisite: Graduate Status in Spanish.

SPAN 5334. Contemporary Spanish American Literature. 3 Hours.
Students examine the literary expressions of various Hispanic cultures during the 20th century and beyond including the U.S. Latino experience. Topics may include authors, themes, artistic/literary genres or contemporary social and political issues.
Prerequisite: Graduate Status in Spanish.

SPAN 5336. Hispanic Women's Studies. 3 Hours.
Students examine Hispanic women's literature and art. Students interpret, evaluate, and respond to a variety of genres within this topic.
Prerequisite: Graduate status in Spanish.

SPAN 5337. Literature Analysis and Research Methods. 3 Hours.
Students enhance their literary consciousness and capability through reading and discussion. They develop familiarity with and appreciation for Hispanic literature while increasing their ability to interpret and evaluate cultural products. Students practice analytical and interpretive skills to conduct independent research for scholarly presentations and publications.
Prerequisite: Graduate Status in Spanish.

SPAN 5338. Second Language Teaching and Methods. 3 Hours.
Students evaluate second language acquisition theories to understand their relationship to effective teaching with a focus on language skills (listening, speaking, reading, writing, and cultural awareness). Emphasis is given to the evaluation of language based on state and federal guidelines.
Prerequisite: Graduate Status in Spanish.

SPAN 5361. The Structure of Spanish. 3 Hours.
Students broadly examine the linguistic structure of Spanish. Topics may include phonetics/phonology, morphology, syntax, semantics, and pragmatics of the Spanish language.
Prerequisite: Graduate Status in Spanish.

SPAN 5370. History of Spanish Language. 3 Hours.
Students discover the history of the Spanish language over the last two millennia. Topics may include the formal development of Spanish phonology, morphology, syntax, and semantics.
Prerequisite: Graduate Status in Spanish.

SPAN 5371. Contemporary Spanish Literature. 3 Hours.
Students conduct an in-depth study of the major authors, works (including films), and aesthetic currents of Spanish literature beginning with the 20th century. Texts are studied from a variety of theoretical approaches.
Prerequisite: Graduate Status in Spanish.

SPAN 5372. Spanish for Technical Composition. 3 Hours.
Students study forms of exposition, including narration, to develop competency for clear and effective technical writing for various professions including health, law, criminal justice, education, science, technology, literature and business.
Prerequisite: Graduate Status in Spanish.

SPAN 5373. Theories and Practices of Translation and Interpretation. 3 Hours.
Students are trained in the cognitive processes and language skills required to translate and interpret written or audiovisual texts.
Prerequisite: Graduate Status in Spanish.

SPAN 5374. Studies in Spanish Linguistics. 3 Hours.
Students apply Spanish linguistics principles. Topics vary and may include phonology, morphology, syntax, semantics, and pragmatics. Related topics may include specific approaches to language variation, bilingualism, and language acquisition. The course may be repeated for credit as content varies.
Prerequisite: Graduate status in Spanish.

Special Education (SPED)

SPED 5301. Education of Individuals with Disabilities. 3 Hours.
This course provides an introduction to the strengths and needs of persons with disabilities, with implications for identification and educational programming for regular and special educators. Legislation and case law addressing the rights of individuals with disabilities are discussed.

SPED 5302. Assessment in Special Education. 3 Hours.
This course addresses basic measurement principles, formal and informal assessment, and the connection of assessment to instruction. Students gain experience with diagnostic tools for assessing achievement, social behavior, adaptive behavior, language, and perceptual-motor skills.

SPED 5303. Study of Cognitive and Low Incidence Disabilities. 3 Hours.
This course is designed to provide an in-depth study of the strengths and needs of persons with intellectual disabilities and other low-incidence disabilities. Topics addressed include etiology, family partnerships, educational needs, inclusive programming, and transition issues across the lifespan.

SPED 5304. Teaching Methods for Learners with Mild to Moderate Disab. 3 Hours.
Course content centers upon a rationale for instruction of students with mild to moderate disabilities. Research-based assessment and instructional strategies are presented.

SPED 5305. Individual Assessment of Cognitive Functioning. 3 Hours.
This course is designed to acquaint students with the theory, problems, ethical standards, and techniques of administering individual tests of intelligence. Specifically, each student will learn to administer, score, and interpret the various cognitive assessments.

SPED 5306. Transition Services for Individuals with Disabilities. 3 Hours.
Students study current issues and practices related to transition services to address post-school outcomes in education and training, employment, and independent living. Course content and activities focus on transition program models, federal requirements for transition services, evidence-based practices and predictors for positive post-school transition outcomes, integrating transition into academics, and self-determination.

SPED 5307. Transition Assessment and Instruction. 3 Hours.
Students study the secondary transition assessment process for learners with disabilities including formal and informal transition assessments, functional vocational evaluations, and person- and family- centered planning. Transition assessment models for elementary, secondary, and 18-21 adult programs are addressed.

SPED 5308. Career Development & Employment for Youth with Disabilities. 3 Hours.
Students learn theories, practices, methods, and processes of career development and employment for youth and young adults with disabilities. Students gain knowledge and skills in career development techniques, work-based learning, collaboration with vocational rehabilitation, data collection for decision-making within special education transition programming designed to lead to employment.

SPED 5309. Leadership in Transition Services. 3 Hours.
Students study the role of secondary transition professionals. Topics addressed include collaboration, communication, leadership, conflict resolution, consultative skills, legislation and policy advocacy, state and national resources and organizations, grants for transition programming, and developing programs and relationships in the school district and community. A minimum of one field-based project will be implemented to bridge classroom theory to field-based practice.

SPED 6016. Workshop in Education. 1-3 Hours.
The topic(s) included will vary with academic program and semester offered. Variable Credit (1-3). Course Equivalents: SPED 6316 .

SPED 6088. Special Topics in Special Education. 3 Hours.
This course will examine special topics in the field of Special Education. / This course will examine special topics in the field of Special Education. / This course is designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3.)

SPED 6089. Independent Study in Special Education. 1-3 Hours.
This is a course designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3).
Prerequisite: Consent of Department Chair.

SPED 6301. Applied Behavior Analysis. 3 Hours.
This course presents basic principles, processes, and concepts in Applied Behavior Analysis. Applied project required.

SPED 6302. Seminar In Autism Spectrum Disorders. 3 Hours.
The course provides an overview of autism spectrum disorders, identification and etiology, and research-based programs and services for students identified with disabilities within the spectrum of autism.

SPED 6303. Behavioral Intervention and Change Procedures. 3 Hours.
This course presents an in-depth study of basic principles of Applied Behavior Analysis, behavioral interventions, and ethical considerations in applied settings.
Prerequisite: SPED 6301 .

SPED 6304. In-Home Training and Family Issues. 3 Hours.
This course has a focus on the diverse needs of children and families with exceptionalities. The course covers the interplay of diverse cultures, abilities, and communication within a context of professional collaboration.

SPED 6305. Study of Behavior Disorders in Children. 3 Hours.
This course focuses on theories, characteristics, and instruction for students with mild, moderate, and severe emotional and behavioral disorders. Issues involving definition, classification, and intervention for such disorders as aggression, autism, depression, and delinquency will be addressed.

SPED 6306. Evaluation and Measurement of Behavior. 3 Hours.
This course addresses ethical issues in research, single-subject experimental design, descriptive statistics, visual analysis, and interpretation of data. A research project is required.

SPED 6307. Behavioral Assessment Issues and Procedures. 3 Hours.
This course presents methods and procedures of Applied Behavior Analysis including antecedent manipulations, consequence manipulations, and teaching functionally equivalent responses. Behavior Analytic methods and curriculum for the education and treatment of children with disabilities will be emphasized. Ethics for behavioral intervention will be presented. Demonstration of behavioral methods and strategies required.
Prerequisite: SPED 6303.

SPED 6308. Practicum 1. 3 Hours.
Students gain direct experience in the use of curriculum, methods, and materials for learners with special needs. Additional topics include assessment, modifications, adaptations, learning strategies, direct instruction and collaboration.

SPED 6309. Internship. 3 Hours.
Students in the internship develop and implement multiple Behavior Analytic programs in applied settings under the supervision of a Board Certified Behavior Analyst.
Prerequisite: SPED 6303, SPED 6306 and SPED 6307.

SPED 6310. Assessment of Young Children and Low Incidence Populations. 3 Hours.
This course provides instruction and practice in administration, scoring, interpretation, and reporting results of individual tests and assessments for young children, individuals with intellectual disabilities and persons with low-incidence disabilities. Informal techniques such as play-based assessment, portfolio assessment, and contextual assessment are presented.

SPED 6311. Seminar in Special Education. 3 Hours.
This course prepares students for the role of the educational diagnostician. Topics addressed include special education law, consultation and collaboration, second language learners with special needs, and research-based best practices in special education.

SPED 6312. Practicum 2. 3 Hours.
This course provides a field-based practicum under the direction of a certified educational diagnostician. It is designed to provide intensive study in the role of the educational diagnostician.

SPED 6313. Seminar in Language and Learning Disabilities. 3 Hours.
This course presents a study of the research and professional literature related to language and learning disabilities. An overview of math disabilities is also presented.

SPED 6314. Thesis I: Research Methods in Behavioral Analysis. 3 Hours.
Students conduct a literature review and develop a Behavior Analytic research proposal according to APA style for their masters thesis.

SPED 6315. Thesis II. 3 Hours.
Students collect and analyze experimental data and defend their research thesis.
Prerequisite: Admission to Candidacy, SPED 6314.

SPED 6317. Applied Research In Special Education. 3 Hours.
Current research issues in special education will be discussed, with emphasis on research in behavior analysis. Students will conduct an experimental research project, collect and analyze data, and present results. Students will also present research related to experimental project.
Prerequisite: SPED 6314.

SPED 6318. Ethics for Behavior Analysts. 3 Hours.
This course provides students with knowledge and skills to apply ethical standards to guide their professional practices as behavior analysts. Ethical standards and guidelines of professional organizations or agencies are presented, with in-depth study of the standards of Association for Behavior Analysis International (ABAI), Association of Professional Behavior Analysts (APBA), and the Behavior Analyst Certification Board (BACB).
Prerequisite: Admission to graduate studies.

SPED 6319. Bilingual Cognitive Assessment. 3 Hours.
This course provides students with the theory base, knowledge of current issues, and techniques of administering individual tests of cognitive ability. Emphasis is placed on assessment of dual-language individuals in a valid and ethical manner. Each student will learn to administer, score, and interpret current cognitive assessment data that are conducted in English and Spanish.
Prerequisite: SPED 5302 and approval of instructor.

SPED 6321. Outcomes in Behavioral Interventions. 3 Hours.
This course focuses on research-based strategies for improving outcomes in student behavior. Essential principles of the course include ethical conduct, functional behavior assessment, behavior analysis, data collection, and specifically designed research-based classroom interventions.

SPED 6322. Bilingual Special Education Assessment. 3 Hours.
This course addresses measurement principles, formal and informal assessment, and connecting assessment to instruction. Students gain experience with assessment of achievement skills in Spanish and English, social behavior, adaptive behavior, and perceptual-motor skills for English Language Learners (ELLs) to determine eligibility in Special Education.

SPED 6328. Practicum in Behavior Analysis. 3 Hours.
In this course students gain direct experience in the use of behavioral principles, methods, and materials for learners with and without special needs while under the direct supervision of a Board Certified Behavior Analyst (BCBA).
Prerequisite: SPED 6307.

SPED 6329. Behavior Analysis in Complex Organizations. 3 Hours.
Students examine practices and develop competencies in assessing supervisee skills, training personnel, and evaluating the effects of supervision. This course also focuses on the managerial responsibilities associated with supervising therapist who deliver interventions based on ABA principles. It covers performance analysis and management, staff training, behavioral systems analysis, organizational culture, and leadership.

SPED 6331. Advanced Concepts and Principles in ABA. 3 Hours.
Students examine advanced principles, processes, and concepts in Applied Behavior Analysis (ABA). Students are provided with an overview of the philosophical underpinnings of ABA and an in-depth study of human behavior from a radical behaviorist perspective.

SPED 6332. Experimental Analysis of Behavior. 3 Hours.
Students examine how principles of behavior are discovered and described in the context of experimental research. The course provides a comprehensive conceptualization of learning with humans and animals.

SPED 7088. Special Topics in Special Education. 3 Hours.
This course will examine special topics in the field of Special Education. / This course will examine special topics in the field of Special Education. / This course is designed for independent study of selected topics under the supervision of a faculty member.

SPED 7089. Independent Study in Special Education. 1-3 Hours.
This course will examine special topics in the field of Special Education. / This course will examine special topics in the field of Special Education. / This course is designed for independent study of selected topics under the supervision of a faculty member. Variable Credit (1-3.)

SPED 7101. Doctoral Seminar in Special Education. 1 Hour.
Candidates will demonstrate their knowledge of real problems and needs in both national and local special education programs and policies. Identification of existing research problems and an action plan for implementation will be required.
Prerequisite: Admission to the Ed.D. Program in Special Education.

SPED 7301. Instructional Practices in Special Education. 3 Hours.
Course content examines research-based programs and practices in academics, literacy, math, and behavior which is designed to document student learning under conditions of intensive, research-based instruction, including universal design. Response to Intervention programs will be included as part of a directed effort to meet the educational needs of students at a pre-referral phase. Family partnerships and collaboration with internal and external stakeholders are emphasized. Research-based practices in promoting student self-determination and independent functioning are emphasized.

SPED 7302. Legal Issues and Policies in Special Education. 3 Hours.
This course covers the major laws and policies affecting individuals with exceptionalities. The current body of research and literature in legal issues is emphasized.
Prerequisite: Admission to the Ed.D. program in Special Education.

SPED 7303. Functional and Curriculum-Based Assessment. 3 Hours.
Research and practice in the dynamics and critical decisions involving functional and curriculum-based assessment systems are covered. The relationship between interventions and assessment findings will be focused upon in both academic and behavioral contexts. Candidates will demonstrate proficiency in creating high quality Individualized Educational Programs (IEP) and Behavioral Support Plans (BSP).
Prerequisite: SPED 7302.

SPED 7304. Program Evaluation in Special Education. 3 Hours.
Course content will be devoted to the evaluation of the learning environments that foster student engagement and academic success, prevention of behavior problems, and recognition of diversity. Examination of theories, models, issues, and practices in conducting evaluations of special education programs will be emphasized. The promotion of continuous improvement of school programs and services along with lifelong professional growth for educators are designated course outcomes. School wide reform processes and procedures will be presented.
Prerequisite: SPED 7302.

SPED 7305. Personnel Preparation and Collaboration. 3 Hours.
The content and experiences provided in this course are directed toward the preparation and ongoing professional development of special education personnel in varied roles. Candidates will examine and apply practices and competencies that support and promote ethical and professional behaviors and value continuing professional growth and development. Prerequsite: SPED 7302.

SPED 7306. Small N Designs in Educational Research. 3 Hours.
This course addresses the rationale, logic, and methodology of single subject and small n research designs. Students will practice graphing data and conducting visual analysis. Students will read original research demonstrating single subject designs and will prepare research proposals using small N research designs.
Prerequisite: SPED 7302.

SPED 7316. Independent Research in Special Education. 3 Hours.
This course will provide doctoral students an opportunity to engage in detailed and in-depth research study of a program or issue in special education. Students will work under the supervision of a doctoral faculty member in special education and will produce a written product presentation.
Prerequisite: Admission to doctoral studies and departmental approval.

Sport Management (SPMT)

SPMT 5334. Sport Management Internship I. 3 Hours.
Students engage in an internship experience in a sport industry setting. Supervisory assistance by project staff occurs at frequent intervals. Students complete 200 hours of internship experience, which fulfills the first half of the 400-hour internship requirement.
Prerequisite: Department Approval and Graduate Standing.

SPMT 5335. Sport Management Internship II. 3 Hours.
Students complete 200 hours of an internship experience, which fulfills the second half of the 400-hour internship requirement. Students gain experience in a new setting or delve deeper into the experiences gained in SPMT 5334.
Prerequisite: Department Approval and Graduate Standing.

SPMT 5362. Legal Issues in Sports. 3 Hours.
Students examine legal factors affecting Physical Education, amateur athletics, and professional sport. Their analysis involve teachers, coaches, officials, spectators, medical personnel, owners of sports teams, and commercial suppliers of equipment and products used within an activity setting. Course Equivalents: KINE 5362 .

SPMT 5363. Leadership in Sport Management. 3 Hours.
This course is designed for the individual who will assume some type of supervisory position in health promotion or sport management. The course's focal point involves exposure to administrative skills required of those who serve in a leadership capacity. Course Equivalents: KINE 5363 .

SPMT 5370. Sport Marketing: Theory and Practice. 3 Hours.
Students cover the essentials of sport marketing which includes planning, promotions, operations, and market analysis. The fundamental principles used in the marketing of sport, products, events, and the importance of service quality will also be examined. Students are exposed to the latest research in the field and will interact with industry professionals. Course Equivalents: KINE 5370 .

SPMT 5371. Sport Finance and Sales. 3 Hours.
Students learn financial concepts associated with franchise operations, stadium funding proposals, budgets, and bond referendums. In addition, franchise revenue streams are discussed in detail. Students are exposed to a variety of different sales strategies and tactics that can be applied to the sport industry and are also exposed to the latest research and professional trends in the field. Course Equivalents: KINE 5371 .

SPMT 5373. Event & Facility Management. 3 Hours.
Students examine the practical application of the principles and theory related to planning, organization, and execution of sport. In addition, entertainment events are addressed. Fund raising and charity management are considered, as will the management of small and large scale facilities and event venues. Site visits and interactions with local sport organizations also take place. Course Equivalents: KINE 5373 .

SPMT 5374. Applied Research Methods in Sport Management. 3 Hours.
Students study research techniques, identification of problems, research designs, survey procedures, and data gathering procedures as they apply to sport industry settings. In addition, students develop a proposal for a research project.
Prerequisite: Graduate Standing.

SPMT 5380. Ethics in Sport Management. 3 Hours.
Students examine ethical theory and moral decision making as related to the management of sport. Graduate students review research findings and current literature relevant to issues affecting concepts of ethics and morality in the management of sport. Through introspection, students develop and express their philosophy toward ethics and morality. Course Equivalents: KINE 5380 .

SPMT 5382. Community and Media Relations in Sport. 3 Hours.
Students engage in an intensive study of media in sport management addressing community relations, press conferences, news releases, media-athlete relations, print journalism, television contracts, web-based content and public relations. Emphasis is placed on media management, athlete representation, and crisis management with the goal of positively representing organizational interests. Course Equivalents: KINE 5382 .

SPMT 5383. Sport Consumer Behavior. 3 Hours.
Students investigate sport consumer psychology and sport consumer behavioral patterns. An understanding of both sport spectator and sport participant consumption behaviors, with marketing and event management implications is emphasized. Students apply these concepts in advanced sport consumer marketing and sport event management scenarios. Course Equivalents: KINE 5383
Prerequisite: Graduate Standing.

SPMT 5384. Revenue Generation in Sport. 3 Hours.
Students develop an in-depth knowledge of how professional sport organizations and intercollegiate athletic departments generate the revenue needed to sustain successful business operations. Students focus on various strategies and execution methods related to sales, sponsorships, management, and marketing. Additionally, this course provides students with an opportunity to combine theory with practice. Course Equivalents: KINE 5384
Prerequisite: Graduate Standing.

SPMT 5387. Sport Analytics. 3 Hours.
Students engage in an applied study of sport analytics and its impact on the sport industry. Students also gather, classify, analyze, and interpret quantitative and qualitative data to arrive at better strategic decisions for sport organizations.
Prerequisite: Graduate Standing.

SPMT 6098. Sport Management Thesis I. 1-3 Hours.
Students complete a review of the related literature, formulation of the research design and procedures, and related pilot studies. Some data collection may be conducted and the thesis symposium must be completed to the satisfaction of the advisor and members of the thesis committee. Students must maintain continuous enrollment in this course until the thesis proposal is completed. Variable Credit (1 to 3).
Prerequisite: Either KINE 5374 or SPMT 5374; and Department Approval.

SPMT 6099. Sport Management Thesis II. 1-3 Hours.
Students complete data collection, final analysis, discussion of results, and a public defense of the thesis. Students must maintain continuous enrollment in this course until the thesis is completed. Variable Credit (1 to 3).
Prerequisite: Either KINE 5374 or SPMT 5374; and Department Approval.

Statistics (STAT)

STAT 5333. Design and Analysis of Experiments. 3 Hours.
Topics include the design, analysis and interpretation of results from standard experimental design models including the completely randomized design, the randomized complete block, the incomplete block, factorial models, Latin squares, Greco-Latin squares, screening designs, fractional factorials, and general fixed, mixed and random effects ANOVA models.
Prerequisite: STAT 4372 (or equivalent).

STAT 5360. Special Topics In Statistics. 3 Hours.
Topics are selected from emerging areas in statistics that are not covered in regular courses. Such topics as data mining, statistical learning, pattern recognition, spatial statistics, statistical methods in finance, functional data analysis, life contingencies may be included. Also listed as MATH 5360.
Prerequisite: Consent of instructor.

STAT 5361. Theory and Application of Probability. 3 Hours.
Topics include probability axioms and properties, conditional probability, random variables, probability distributions, moment generating functions, laws of large numbers and the Central Limit Theorem. Also listed as MATH 5361.
Prerequisite: STAT 4372 (or equivalent) or consent of instructor.

STAT 5362. Theory and Application of Statistics. 3 Hours.
Topics include convergence in probability and distribution, point estimation, hypothesis testing, interval estimation, maximum likelihood methods, properties of estimators such as efficiency, sufficiency and completeness, exponential family of distributions, most powerful tests, uniformly most powerful tests, and likelihood ratio tests.
Prerequisite: STAT 5361 (or equivalent) or consent of instructor.

STAT 5364. Applied Multivariate Statistical Analysis. 3 Hours.
Topics include the multivariate normal distribution, inferences about a mean vector, comparisons of several multivariate means, principal components analysis, clustering, discriminant and classification analysis.
Prerequisite: STAT 4372 (or equivalent) or consent of instructor.

STAT 5365. Linear Statistical Models. 3 Hours.
Topics include the statistical properties of quadratic forms, the full-rank general linear statistical model, the less-than-full-rank model, the linear model structure of regression models, ANOVA models, ANCOVA models, the general characteristics of the fixed, mixed and random effects models and model diagnostics considerations.
Prerequisite: STAT 4372 or STAT 5362 (or equivalents).

STAT 5366. Sampling Methods. 3 Hours.
Topics include the theory and applications of standard methods for performing scientific-based sampling. Among these are simple random sampling, cluster sampling, stratified random sampling, systematic sampling, probability proportional to size (pps) sampling, sampling from finite populations and ratio regression estimation.
Prerequisite: STAT 4372, STAT 5362, or consent of instructor.

STAT 5367. Reliability Analysis and Quality Control. 3 Hours.
Topics include measures of failure, reliability functions, failure models, life testing and censoring, system reliability, parameter estimation and testing, control charting, acceptance sampling plans, software reliability and process control.
Prerequisite: STAT 4372, STAT 5362, or consent of instructor.

STAT 5368. Regression Modeling & Analysis. 3 Hours.
Topics include model estimation and testing, simple and multiple regression models, residual analysis, variables selection, polynomial regression, multicollinearity, ridge regression, logistic regression and real data analysis and applications.
Prerequisite: STAT 4372, STAT 5362, or consent of instructor.

STAT 5369. Statistical Computing and Consulting. 3 Hours.
This course consists of a detailed study of the SAS package including SAS/BASICS, SAS/STAT, SAS/GRAPH and SAS/IML with emphasis on applying these tools in a consulting environment. Techniques and principles important in working with representatives of user disciplines are included.
Prerequisite: STAT 3380 and graduate standing.

STAT 5370. Nonparametric Statistics. 3 Hours.
Topics include order statistics, contingency analysis, rank tests (Wilcoxin signed-rank test, Mann-Whitney U test and others), distribution-free tests of location and scale, nonparametric regression, Kendall's tau and related areas.
Prerequisite: STAT 4372 (or equivalent) or consent of instructor.

STAT 5390. Statistical Learning. 3 Hours.
Students learn essential modeling and prediction techniques and toolsets for classical and modern statistical learning and concentrate on their applications to statistical modeling and prediction problems. Particularly, students implement statistical learning models using well-established statistical software packages and tools in R, Python, and MATLAB, and analyze patterns and information discovered from target data. Topics may include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, deep learning, survival analysis, multiple testing, and recent research trends.
Prerequisite: Approval by the Graduate Advisor.

STAT 6060. Independent Study. 1-3 Hours.
Students research a subject in depth under the direct supervision of a faculty member with expertise in the particular area of study. The topic of study will be mutually selected and approved by the student and Statistics faculty member. Variable Credit (1 to 3).
Prerequisite: Consent of instructor.

STAT 6099. Research and Thesis. 1-3 Hours.
This course continues the thesis research and concludes with a carefully written solution of the thesis problem and a satisfactory oral presentation of the results. Study must be supervised by a member of the graduate statistics faculty. Variable Credit (1-3). Course Equivalents: STAT 6399
Prerequisite: STAT 6398.

STAT 6366. Applied Bayesian Analysis. 3 Hours.
This course presents Bayesian methods and their application to fields such as agriculture, biology, criminal justice and medicine. Topics include basic models that use the binomial, normal, poisson and gamma distributions; complex models that apply Markov Chain Monte Carlo methods like the Gibbs sampler and the Metropolis-Hastings algorithm; model selection and evaluation of model adequacy. Software current to the discipline will be used to analyze data.
Prerequisite: STAT 4372 or departmental approval.

STAT 6375. Biostatistics. 3 Hours.
This course consists of the topics related to statistical methods in biomedical studies: Types of biomedical study designs, assessment of risk factors, measure of disease-exposure association, logistic regression, analysis of count data, analysis of event-time data, and resampling methods.
Prerequisite: STAT 4372 or departmental approval.

STAT 6376. Time Series Analysis. 3 Hours.
This course presents both classical and modern approaches to time series analysis. Topics include autoregressive integrated moving average models, exponential smoothing models, and time series regression methods. Emphasis is placed on building time series models for forecasting.
Prerequisite: STAT 4372 or departmental approval.

STAT 6377. Introduction to Survival Analysis. 3 Hours.
Students explore both the theory and real-world applications of survival analysis in the biomedical and engineering fields. Topics may include nonparametric, semiparametric, and parametric survival methods, model diagnostics, and modern techniques for survival analysis methods. Statistical software such as SAS and R will be used to analyze data.
Prerequisite: STAT 5361 or approval of the instructor.

STAT 6378. Longitudinal Data Analysis. 3 Hours.
Students explore the statistical analysis of longitudinal data. This course focuses on modern statistical methods for longitudinal data and their applications in real world problems. Topics may include repeated measures, modeling longitudinal data, analysis of variance in repeated measures, population averaged models, linear mixed effect models, generalized estimating equations, and generalized linear mixed effect models. Statistical software such as SAS and R will be used extensively to analyze data.
Prerequisite: STAT 4372 (or equivalent) or approval of the instructor.

STAT 6380. Statistics Practicum. 3 Hours.
Students work on a specific research topic under a faculty member's supervision. The specific topic or problem will be chosen from current trends and future directions in statistics. Therefore, the course content varies based upon the topic that both the student and the mentoring faculty member choose. The practicum experience provides students the opportunity to apply and integrate knowledge acquired through coursework.
Prerequisite: Consent of instructor.

STAT 6398. Research And Thesis. 3 Hours.
This course includes a study of research methods in statistics, identification of an appropriate thesis problem and the preparatory work leading to a plan for its solution. Study must be supervised by a member of the graduate statistics faculty.
Prerequisite: STAT 5362.

STAT 7365. Statistical Methods for Decision Making. 3 Hours.
Topics covered are oriented toward statistical methods supporting the decision environment. Topics include estimation, hypothesis testing, statistical modeling and decision methods.
Prerequisite: 3 Credit hour of graduate-level, introductory probability and statistics or the equivalent.

Supply Chain Management (SCMG)

SCMG 5315. Seminar Operations Management. 3 Hours.
The operations management function in a business enterprise has always been central to the activities of the organization. Achieving world-class competitiveness in either the manufacturing or service sectors demands that modern managers understand how to apply the fundamentals of operations management. The course covers various topics, with a focus of exposing the student to a variety of methods that will assist with problem solving and decision-making. Course Equivalents: MGMT 5315 .

SCMG 5316. Supply Chain Management. 3 Hours.
Students apply the skills and knowledge needed for supply chain management in their projects and organizations. Course content includes an examination of strategies to optimize operations within a network of partners, develop integrative processes, and leverage information systems in an efficient manner. Course Equivalents: MGMT 5316 .

SCMG 5318. Quality Management. 3 Hours.
Students are provided with the skills and knowledge needed to advance quality in their projects and organizations. This course covers current topics in quality management, such as total quality control, statistical quality control, statistical process control, quality circles, continuous improvement, definition and measurement of outcomes, and techniques to achieve increased quality of organizational activities. Course Equivalents: MGMT 5318
Prerequisite: Graduate Standing.

SCMG 5323. Tools of Project Management. 3 Hours.
Students are provided with the knowledge of and practice with project management tools, which includes tools and techniques for project planning and selection, project initiation and portfolio management, risk management, and implementation and closure. Course Equivalents: MGMT 5323
Prerequisite: Graduate standing.

SCMG 5325. Project Management. 3 Hours.
Students learn how to plan, implement, control, and close projects. Topics may include project scope and definition, time and cost management, conflict resolution and team processes, resource allocation, scheduling, and life cycle management. Course Equivalents: MGMT 5325 .

SCMG 5327. Agile Project Management. 3 Hours.
Students examine an iterative approach to project management while investigating the principles of agile project management, agile manifesto, iterative life cycles, Kanban scheduling systems, just-in-time scheduling, resource capacity, environment, decision-making, and the adaptive characteristics of an agile environment. Course Equivalents: SCMG 5327 .

SCMG 5330. Operations Planning & Control. 3 Hours.
Students cover operations planning and control systems in project, manufacturing and service environments. Topics may include resource control, resource planning, scheduling, capacity planning, operations planning and control software. Course Equivalents: MGMT 5330 .

SCMG 5375. Enterprise Resource Planning Business Process Integration. 3 Hours.
This course uses the SAP ERP information system paradigm as a model for examination and development of integrated business process solutions. Students examine the conceptual background, rationale, methods, and procedures commonly employed by businesses in developing and configuring integrated business systems. Students obtain practice and training through cases and hands-on experience using SAP ERP by requiring them to configure business process solutions through integration of financial, controlling, production, materials management, sales and distribution, manufacturing, and other ERP process modules. Course Equivalents: MGMT 5375
Prerequisite: Thirty-six hours of business related courses of which twelve must be at the graduate level, completion of the MBA core courses and ACCT 5304 or ACCT 5347, or permission of the instructor.

SCMG 5395. Project Management Capstone. 3 Hours.
Students evaluate the knowledge areas of project management as they apply to real world situations. This course takes a hands-on approach using a number of methodologies such as case studies, project audits, and class projects. Emphasis is placed on applying the concepts of project management to a variety of business disciplines. Course Equivalents: MGMT 5338
Prerequisite: Admission to the Project Management Program, SCMG 5325, SCMG 5330, SCMG 5323, and completion of 24 graduate credits.

Sustainable Agriculture and Food Environment (SAFE)

SAFE 5311. Advanced Agriculture & Food Entrepreneurship. 3 Hours.
This course will examine the initiation of new ventures and growth of existing firms in sustainable agriculture and food production through opportunity recognition, innovation, and change. An emphasis will be placed on developing effective entrepreneurial skills and behaviors, and risk management for start-ups. The preparation of a structured business plan will be required.

SAFE 5312. Agriculture Sales and Communication. 3 Hours.
This course will include the application of economic, marketing, sales, and communication principles to small-scale, intensive agriculture including organics and natural products. A focus will be placed on finding a competitive niche through market segmentation/demography, market research, product choice and differentiation, product positioning and pricing, product outlets and advertising, selling strategies, and the use of current and emerging communication tools.

SAFE 5313. Agritourism. 3 Hours.
This course will present the variety and depth of agritourism/ecotourism practiced globally and cover aspects of the economics and organization of agritourism. Topics include agricultural economics, rural development, marketing, rural policy, products and services, and characteristics of agritourists.

SAFE 5331. Sustainable Energy & Resources. 3 Hours.
This course will focus on determining energy requirements of various sustainable agricultural operations. Available energy sources will be examined as alternatives for traditional sources provided by fossil fuel. Innovative and emerging on-site production technologies for environmentally sensitive energy will be investigated.

SAFE 5341. Diversified Horticulture. 3 Hours.
Students analyze sustainable production of horticultural crops and create solutions to a diverse range of horticultural crop production techniques. Topics may include sustainable crop management, organic production, genetically modified crops, marketing of fresh produce, and hydroponics production.
Prerequisite: PLSC 3440 or SAFE 5391.

SAFE 5351. Agricultural Advocacy. 3 Hours.
This course will examine common issues facing agriculturists in relation to the production of a safe and abundant food supply. A primary focus will include small-scale and direct-marketing producers and the challenges they frequently encounter from industry opponents. Positive and factual promotional strategies will be explored. Social issues, political influences, and topics such as food safety and ethics, biotechnology, genetically modified organisms, and animal welfare will be addressed.

SAFE 5371. Alternative Agriculture Enterprises. 3 Hours.
This course will evaluate various alternative agricultural enterprises available to producers, including an examination of the resources necessary to establish a successful production enterprise. Alternative enterprises to be discussed include forage crops, grains, fruits, vegetables, nuts, horticultural and forestry products, animals, and enterprises that promote education, recreation, and tourism. On-farm processing of products and methods of adding value to products before they leave the farm will also be explored.

SAFE 5372. Diversified Animal Production. 3 Hours.
This course examines various animal production systems in relation to alternative animal agriculture and integrated ranch and farm management strategies. Various livestock production and management strategies for small land-owners and urban food production will be studied. Livestock species and breed choices for sustainable production regimens and organic food systems will be explored.

SAFE 5373. Food Safety and Regulation. 3 Hours.
This course examines fundamental principles of microbiology as they relate to food safety and product development. Intervention methods to restrict microbiological growth from harvest to plate, including Hazard Analysis Critical Control Point (HACCP) and Sanitation Standard Operating Procedures (SSOP), are evaluated. In addition, state, federal, and international policies, and laws as they relate to the regulation of food production methods, product development, labeling, and product sales for organic, all natural, value-added, and other alternative food production methods are studied.

SAFE 5391. Soil Ecology. 3 Hours.
This course examines living organisms in the soil and their influences on each other, plant health, nutrient cycling, soil organic matter, and other important soil properties. The role of soil biodiversity and its importance in agricultural systems will be addressed along with strategies for enhancing soil productivity under human management activities.

Teach English as Second Lang (TESL)

TESL 7301. Instructed Second Language Acquisition. 3 Hours.
Students evaluate and analyze instructed second language acquisition theory from a critical perspective. Topics include English as a second/foreign language, instructional planning, assessment, and learner and contextual differences.
Prerequisite: Admission to the Ed.D. program in Literacy.

TESL 7303. Developing Materials for English Learners. 3 Hours.
Students evaluate and critique current research, methods, and approaches used in the development of materials for ELs using critical pedagogical perspectives in addressing specific content and language areas. Topics include: analysis of existing materials to develop reading, listening, speaking, and writing skills, as well as vocabulary and grammar. Students develop knowledge and skills to create culturally relevant and developmentally appropriate materials for ELs. Students engage in interdisciplinary collaboration by designing and adapting materials for content and language areas.

Prerequisite: Admission to the Ed.D. program in Literacy.

TESL 7305. Sociolinguistics. 3 Hours.
Students critically examine how sociolinguistic variables influence language use and second language learning and teaching. Students explore modern sociolinguistic theories as well as methods of conducting sociolinguistic research, collecting and analyzing sociolinguistic data, including the analysis of second language classroom discourse. Students critique and evaluate research studies of language as a social phenomenon and the relationship between language and society as it relates to the field of TESOL while using their critical cross-cultural communicative competence.
Prerequisite: Admission to the Ed.D. program in Literacy.

TESL 7307. Teaching Second Language Writing. 3 Hours.
Students examine landmark and contemporary research on second language writers in a variety of settings. Following an interdisciplinary approach, the course focuses on teaching second language writing in multicultural contexts. Topics include second language writers, characteristics of writers and texts, comparison to first language writers, writing course design, inclusive writing programs, second language acquisition and writing interface, functional writing, contrastive rhetoric, teacher and peer evaluation, assessment, teaching second language writing, and multimodal writing in digital platforms.
Prerequisite: Admission to the Ed.D. in Literacy.

TESL 7309. Teacher Ed in English as a Second or Foreign Language. 3 Hours.
Students compare and contrast how English as a second/foreign language is taught and how educators learn to teach English in diverse contexts. This includes an analysis of the historical, cultural and social influences on the teaching of English as a second/foreign language from a perspective of social justice and critical pedagogy. They examine effective models of professional development, as well as design a professional development plan based on a specific context on language teaching and learning.
Prerequisite: Admission to the Ed.D. in Literacy.

TESL 7311. Assessment of English as a Second/Foreign Language Learners. 3 Hours.
Students examine theory, research, and practice relevant to assessment of English as a Second/Foreign Language learners. Topics include the principles of testing and evaluation as applied to the formal and informal assessment of English as a second/foreign language and academic content, the development, interpretation and application of assessment data, and legal and ethical considerations in assessment of English as a second/foreign learners.
Prerequisite: Admission to the Ed.D. in Literacy.

Technical Communication (TCOM)

TCOM 5099. Writing in the Field. 1-3 Hours.
Students study current theory, research, and practice in specialized areas of technical communication. Students research, design, and produce documents relative to key industries of the field. Variable Credit (1 to 3). Course Equivalents: TCOM 5399
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5310. Technical & Professional Writing. 3 Hours.
Students examine the field of technical and professional communication and conduct primary research. Students should take this course as soon as they are able in their program, as the course serves a foundational function. Course Equivalents: ENGL 5390 .

TCOM 5320. Managing Digital Documentation. 3 Hours.
Students learn advanced strategies of managing digital processes and knowledge that support online and print publication. Students design, manage, and publish documents using web-based and desktop documentation management systems.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5330. Technical Style and Editing. 3 Hours.
Students study advanced techniques of composing, editing, and refining documents. Students analyze and generate prose for a variety of professional scenarios; additionally, students learn to edit documents using print and digital copy-marking techniques.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5340. Digital Literacies. 3 Hours.
Students study the theory and practice of using digital media in professional situations. Students work with specific media and associated tools to convey expert-level information to differing audiences.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5350. Writing Grants and Proposals. 3 Hours.
Students learn the processes of developing proposals and grants from writing small, internal requests to generating large documents based on external requests for proposals.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5360. Ethics in Professional Writing. 3 Hours.
Students explore technical communication's inherent link to ethical responsibility. Topics include rhetorical concerns, such as agency, plain language, exigency, and efficiency viewed through the lens of varied ethical theories (e.g., relativism, consequentialism, and feminism). Students use case studies and role playing to engage with the material.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5370. Intercultural Technical Communication. 3 Hours.
Students explore the complexities of communicating technical information in intercultural contexts. By studying issues of how organizations, communities, and individuals communicate across cultures and national borders, students develop best practices for intercultural professional communication.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5380. Document Design. 3 Hours.
Students study the rhetorical and usability effects of document design in print and digital media. Working with digital and print media, students design and produce documents for a variety of professional situations.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5385. User Experience Research and Design. 3 Hours.
Students analyze current theories, methods, and practices of the user experience, usability research, and user-centered design. Students design and conduct a usability study and report findings.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5390. Teaching Technical Communication. 3 Hours.
Students examine current theories, methods, and practices of technical communication pedagogies. Students create materials to demonstrate their application of information.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 5395. Internship and Practicum. 3 Hours.
Students apply their knowledge and skills to a workplace project. Individuals work with professional supervision and in concert with an academic director to acquire hands-on professional experiences and create a capstone project that culminates their professional placement.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 6300. Portfolio. 3 Hours.
Students curate representative works from across their graduate studies to produce a professional portfolio that satisfies the academic requirements for the MA in Technical Communication and that demonstrates their abilities to potential employers.
Prerequisite: Admission to the MA program in Technical Communication.

TCOM 6301. Technical Communication Portfolio I. 3 Hours.
Students begin preparing their professional portfolio to satisfy the academic requirements for the MA in Technical Communication and demonstrate their abilities to potential employers. Students determine the competencies they have mastered throughout the program and work to situate them within the field of technical communication by researching and synthesizing their definitions, histories, and current uses. Students investigate platforms to host their ePortfolios and user-test them.
Prerequisite: Permission of graduate director for students nearing completion of the MA in Technical Communication.

TCOM 6302. Technical Communication Portfolio II. 3 Hours.
Students complete the work begun in TCOM 6301: Portfolio I by producing a professional portfolio that satisfies the academic requirements for the MA in Technical Communication and that demonstrates their abilities to potential employers. Students present their portfolios in a professional setting. Students investigate professional opportunities and prepare job materials. Successful completion of TCOM 6301.
Prerequisite: Admission to the MA program in Technical Communication.

Theatre (THEA)

THEA 5360. Graduate Seminar In Drama. 3 Hours.
Directed individual assignments in all areas of theatre. Special permission of the department chair. May be repeated for credit.

Trombone (TRMB)

TRMB 5201. Individual Performances-Trombone. 2 Hours.
The course consists of advanced individualized instruction on the trombone. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Trumpet (TRMT)

TRMT 5201. Individual Performances-Trumpet. 2 Hours.
The course consists of advanced individualized instruction on the trumpet. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Tuba (TUBA)

TUBA 5201. Individual Performances-Tuba. 2 Hours.
The course consists of advanced individualized instruction on the tuba. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Victim Studies (VCST)

VCST 5364. Seminar in Victimology. 3 Hours.
Students critically examine the study of criminal victimization. Students analyze theories of crime victimization, findings from contemporary research, typologies, best practices, and policy implications. Course Equivalents: CRIJ 5364 .

VCST 5365. Seminar in Crime Victim Services and Management. 3 Hours.
Students examine topics in non-profit agency management with a particular focus on residential shelters. This course satisfies a core requirement of the Master of Science in Victim Services Management program. By the end of this course, students examine and critically evaluate evidence-based practices and laws that govern shelter service delivery. Course Equivalents: CRIJ 5365 .

VCST 5366. Advocacy and Case Management. 3 Hours.
Students engage with an advanced understanding of advocacy work. Bridging research, policy, and practice, students explore the history of the victim rights movement and principles of empowerment-based advocacy. Issues surrounding confidentiality, professionalism, and ethics in service provision are also explored. Course Equivalents: CRIJ 5366
Prerequisite: none.

VCST 5368. Human Sex Trafficking. 3 Hours.
Students explore the scope and magnitude of global and domestic human sex trafficking as well as synthesize the research on antecedents to entry into the sex trade and mental and physical health outcomes from trafficking victimization. Traffickers and solicitors are examined in light of criminological and victimology theory and research. Students evaluate and assess public policy, criminal justice responses, and social service delivery for victims of trafficking in terms of effectiveness. Course Equivalents: CRIJ 5368
Prerequisite: none.

VCST 5370. Elder Abuse and Victimization. 3 Hours.
Students engage in a broad-based study of social, physical, and psychological aspects of elder abuse and victimization. Topics include the dynamics of aging, types of elder abuse, the incidence and prevalence of these crimes, and prevailing theoretical perspectives. Particular attention is paid to elder abuse and the law, along with social service, law enforcement, and medical responses to these offenses. In addition, students explore long-range trends in aging in the U.S. and national, state, and local initiatives to protect the population's eldest members. Course Equivalents: CRIJ 5370
Prerequisite: none.

VCST 5371. Interpersonal Violence. 3 Hours.
Students explore non-lethal and lethal violence occurring over the life course between or among persons who are typically related by blood, legal union, or cohabitation. This includes intimate partners, children, parents and other family members, as well as close friends. Emphasis is placed on the evaluation of community-based resources for preventing or responding to interpersonal violence, along with history of public policy. In addition, students evaluate the challenges of coordinating efforts among legal, medical, and social service providers. Course Equivalents: CRIJ 5371
Prerequisite: none.

VCST 5372. Cybervictimization. 3 Hours.
Students evaluate how cybertechnologies contribute to victimization. Topics will include how to incorporate technology related factors into victimization intervention, prevention, and policy.

VCST 5374. Murder Victimization. 3 Hours.
Students explore issues related to murder victimization. Topics will include factors related to murder victimization risk, grief and coping of the victims' family, larger societal issues, as well as system responses.

VCST 5376. Mental Illness & Victimization. 3 Hours.
Students investigate the victimization of individuals with mental illness in the United States. Particular attention is paid to how systems of social control have traditionally (re)victimized individuals with mental illness. Students explore historical perspectives, current theoretical considerations, available services, and promising programs to develop a deeper knowledge concerning people with mental illness as victims and their victimization experiences.

VCST 5383. Family Violence. 3 Hours.
Students evaluate research policy and practice on the study on family violence. Students examine victim-offender relationship dynamics, theoretical explanations for battering, danger assessment, barriers to help-seeking, and legal considerations. Course Equivalents: CRIJ 5383
Prerequisite: None.

VCST 5384. Child Abuse and Neglect. 3 Hours.
Students evaluate research, policy, and practice in addressing the history and development of the child saving movement in the United States. Students examine practical considerations for advocates, including mandatory reporting, confidentiality, and abuse and neglect indicators. Course Equivalents: CRIJ 5384
Prerequisite: None.

VCST 5385. Non-Profit Grant Writing. 3 Hours.
Students are familiarized with the process of non-profit grant writing. Students write grants for the mock shelter programs they developed in VCST 5365 Crime Victims Services and Management Seminar. They learn how to develop a proposal and the various types of grants. Logic models and performance measures are explored. Course Equivalents: CRIJ 5385 .

VCST 6330. Neurobiology of Trauma. 3 Hours.
Students evaluate the role of the brain, brain systems, and hormone/chemical responses in explaining reactions to experiencing and witnessing a variety of traumatic events. Information is contrasted to traditional, responses from criminal justice practitioners (e.g., law enforcement, courtroom actors), medical staff, and social service personnel when presented with victims of trauma. Evidence-based practices for effective forensic interview techniques and victim advocacy are synthesized in light of recent advances in neuroscience of trauma. Course Equivalents: CRIJ 6330
Prerequisite: none.

VCST 6338. Coordinating Victim Services. 3 Hours.
Students examine professional stakeholders in victim service delivery to ensure efficient, professional, and cooperative victim-centered responses to trauma and criminal victimization. Students evaluate the preventative and reactive mechanisms available to a range of government and non-government providers and synthesizes the management of these victim service provisions. Additionally, students explore the challenges of coordinating efforts between different professional organizations and ways to critically and effectively address problems. Course Equivalents: CRIJ 6338
Prerequisite: none.

VCST 6393. Independent Study in Victim Studies. 3 Hours.
Students examine a topic related to victim studies. Under the direct supervision of a faculty member, the faculty and student formulate a course of study which could include reviewing relevant literature, engaging in research, exploring professional practice, or conducting other forms of inquiry appropriate to the course of study. The course may be repeated for credit.
Prerequisite: Graduate Standing and Department Approval.

VCST 6394. Special Topics in Victim Studies. 3 Hours.
Students examine special topics in the field of victimology and victim services. This course is designed to give Victim Services Management graduate students academic flexibility. Students may repeat this course for credit when topics differ.

Vinlincello (VNCL)

VNCL 5201. Individual Performances-Cello. 2 Hours.
The course consists of advanced private on the cello. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Viola (VIOL)

VIOL 5201. Individual Performances-Viola. 2 Hours.
The course consists of advanced individualized instruction on the viola. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Violin (VILN)

VILN 5201. Individual Performances-Violin. 2 Hours.
The course consists of advanced individualized instruction on the violin. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

Voice (VOIC)

VOIC 5201. Individual Performances-Voice. 2 Hours.
The course consists of advanced individualized instruction on the voice. Instruction focuses on technique and musicality. Students attend a weekly studio class, where there are opportunities to perform for fellow students.
Prerequisite: Admission to the Master of Music program.

World Language and Cultures (WOLC)

WOLC 5075. Independent Study. 1-3 Hours.
Students engage with a faculty member in one-on-one study of individually selected topics not specifically provided in graduate-level courses in WOLC. The course may be repeated for credit as content varies. Variable Credit (1 to 3).
Prerequisite: Department approval.

Faculty

see Interim Faculty (p. 1931)

Tenured/Tenure-Track Faculty

- #
- A (p. 1909)
- B (p. 1910)
- C (p. 1912)
- D (p. 1914)
- E (p. 1915)
- F (p. 1915)
- G (p. 1916)
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- U (p. 1929)
- V (p. 1929)
- W (p. 1929)
- X
- Y (p. 1930)
- Z (p. 1931)

A

Hosam Gharib Abdelhady, PHD (hosam.abdelhady@shsu.edu), *Associate Professor of Pharmacology*, *Department of Physiology & Pharmacology*, PHD, Univ of Nottingham; MPHARM, Cairo University; BPHARM, Al-Fateh Univ of Medical Sci

Berna El Rahi Abed el Sater, PHD (bxa051@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, University of Montreal; MS, American University of Beirut; BS, Notre Dame University

Abbas Aboohamidi, PHD (axa432@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MA, Texas Tech University; BBA, Texas A&M-Corpus Christi

Randy L Adams, MM (mus_rla@shsu.edu), *Professor of Music*, *School of Music*, MM, Northwestern University; BA, Univ of Houston-Main

Samuel Adu-Prah, PHD (sxa054@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MSED, Alcorn State University; MPHIL, University of Cambridge; BA, University of Ghana

Aisha Saratu Ahmadu, PHD (asa059@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Mississippi State University; MBA, New Mexico State University; BA, Midwestern State University

Irfan Ahmed, PHD (mgt_ixa@shsu.edu), *Associate Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Texas A&M University; MBA, The Indian Institute of Mgmt; BA, Osmania University

Bina Ajay, PHD (binaajay@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Cincinnati; BC, University of Mumbai

Ouadie Akaaboune, PHD (oxa021@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MACCY, Southern Illinois U-Carbondale; BA, Univ of Hawaii At Manoa

Sinem Akay-Sullivan, PHD (sxa055@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MED, Univ of North Texas; MS, Middle East Technical Univ; BS, Hacettepe University

Miriam Ama Bima Akoto, PHD (maa126@shsu.edu), *Assistant Professor of French*, *Department of World Languages & Cultures*, PHD, East Texas A&M; MA, Univ of Arizona; BA, Kwame Nkrumah University

Donald P. Albert, PHD (geo_dpa@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of N Carolina-Chapel Hill; MA, Appalachian State University; BS, Salem State College

John G Alford, PHD (jga001@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Calif-Los Angeles

Min Kyung An, PHD (an@shsu.edu), *Associate Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Texas At Dallas; MS, Univ of Texas-Arlington; BS, Jeju National University

Jeffrey S Anastasi, PHD (jsa001@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Suny At Binghamton

Jaime Lynn Anderson, PHD (jla068@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MS, Eastern Kentucky University; BA, Univ of Dayton; BA, Univ of Dayton

Mark J Anderson, PHD (mjanderson@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Iowa State University; MS, Texas Tech University; BS, Texas Tech University

Rebecca Kirstin Andrews Dickert, MD (rebecca.andrewsdickert@shsu.edu), *Assistant Professor of Physiology*, *Department of Physiology & Pharmacology*, MD, Michigan State University; BA, Univ of Chicago

Benny E Arney, PHD (chm_bea@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Rice University; BA, Univ of St Thomas

Michael I Arrington, PHD (mia016@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of Southern Mississippi

Jeremiah Ogonda Asaka, PHD (joa012@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Massachusetts-Boston; MA, Univ of Massachusetts-Boston; MS, Ohio University; BSC, Maseno University

Mario Aschauer, PHD (mxa072@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, University of Vienna; MA, Univ of Music & Perform Arts; MPHIL, University of Vienna

Burcu Ates, PHD (bxa013@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MA, Michigan State University; BA, Middle East Technical Univ

Mardelle Renee Atkins, PHD (mra043@shsu.edu), *Roland Black Endowed Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Traci Leigh Austin, PHD (tla016@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Nebraska-Lincoln; MED, Sam Houston State University; MA, University of Tulsa; BA, Univ of Nebraska-Lincoln; BA, Univ of Nebraska-Lincoln

Andia B Azimi, PHD (axa205@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BS, Georgia State University

B

Nancy E Baker, PHD (neb001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Harvard University; AM, Harvard University; MA, George Washington University; BA, Rutgers University

Maria Hasler Barker, PHD (mhb015@shsu.edu), *Associate Professor of Spanish, Chair of World Languages & Cultures*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Brigham Young University

Timothy Barnum, PHD (txb073@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Saint Ambrose; BA, Valparaiso University

Janella Kay Baxter, PHD (jxb211@shsu.edu), *Assistant Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Illinois-Chicago; MA, Univ of Colorado; BA, Seattle University

Andrea Lynne Beerwinkle, PHD (alb086@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas Tech University; BA, Texas A&M University

Kimberly K Bell, PHD (eng_kkb@shsu.edu), *Professor of English and Dean of Honors College*, *Department of English*, PHD, Georgia State University; MA, Clark University; BA, The American College of Greece

Helen Berg, PHD (hberg@shsu.edu), *Professor of Education and Associate Dean of COED*, *Department of Teaching & Learning*, PHD, Univ of Colorado; MED, Lesley College; BS, Univ of N Carolina-Greensboro

Milo D. Berg, PHD (eco_mdb@shsu.edu), *Associate Professor of Business Analysis*, *Department of Economics & Intl Business*, PHD, Texas A&M University; BSB, Univ of Minnesota-Twin Cities

Marcy Miller Beverly, PHD (agr_mmb@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Tracy E. Bilsing, PHD (eng_teb@shsu.edu), *Associate Professor and Acting Chair of English; Associate Dean, Honors College*, *Department of English*, PHD, Texas A&M University; MA, Sam Houston State University; BA, Sam Houston State University

Jadwiga M Biskupska, PHD (jxb074@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Yale University; MA, Yale University; MA, Yale University; BA, Cornell University

Robin M Bittick, PHD (rmb004@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Claremont Grad Sch; MPA, California St Un-Dominguez Hil; BS, California St Un-Dominguez Hil

William Hollis Blackwell, EDD (whb004@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Boston University; EDM, Harvard University; BA, Colgate University

Jacob Damon Blevins, PHD (jblevins@shsu.edu), *Professor of English*, *Department of English*, PHD, Texas Tech University; MFA, McNeese State University; MA, McNeese State University; BA, McNeese State University

Leslie H Blix, PHD (lhb010@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MS, Cuny Queens College; BS, Hodges University; BA, Univ of Connecticut

Tonya J Blocker, PHD (tjb094@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Florida-Atlantic U; MS, Florida State University; BS, Florida State University

Marcus T Boccaccini, PHD (psy_mtb@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Univ of Santa Clara

Danielle Lynne Boisvert, PHD (dxb014@shsu.edu), *Professor of Criminal Justice and Criminology; Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MFS, George Washington University; BS, University of Western Ontario

Mary K Borcherding, MFA (art_mkb@shsu.edu), *Professor of Art*, *Department of Art*, MFA, Indiana University-Bloomington; BS, Univ of Wisconsin-Madison

Maria Del Pi Botero Jaramillo, PHD (mdb037@shsu.edu), *Professor of Philosophy*, *Department of Psychology & Philosophy*, PHD, York University; MA, York University; BA, Universidad Javeriana

Tony Lane Boutte, DMA (txb023@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Eastman School of Music; BFA, Louisiana Tech University

Tershundrea Branch, PHD (txb035@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; BS, Lamar University

Frances Elizabeth Brandau, PHD (scm_feb@shsu.edu), *Professor and Chair of Communication Studies*, *Department of Communication Studies*, PHD, LSU & A&M College; MA, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Jonathan P Breazeale, PHD (jpb005@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Texas A&M University; MBA, Millsaps College; BS, United States Military Academy

Rosemarie M Brock, PHD (rmb043@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BA, Oklahoma State University

Joshua Martin Bronfman, PHD (jxb102@shsu.edu), *Professor of Music*, *School of Music*, PHD, Florida State University; MA, Oregon State University; BME, Florida State University

Ryan M Broussard, PHD (rxb055@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Louisiana-Lafayette; BA, Univ of Louisiana-Lafayette

Diana Michelle Brown, JD (dxb029@shsu.edu), *Associate Professor and Acting Chair of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BA, Rice University

Jonathan Nathan Brown, PHD (jnb047@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Indiana University

Lisa Ogle Brown, EDD (lob002@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Univ of Houston-Main; BS, Texas A&M University

Stephen L Brown, PHD (sbrown@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of Maryland-College Park; MS, Arizona State University; BS, Brigham Young University

Sibyl Rae Bucheli, PHD (srb009@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Ohio State University; MS, Ohio State University; BA, Hiram College

Harsh Harish Buddhadev, PHD (hhb005@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Iowa State University; MS, Univ of North Texas; BPHIL, Gujarat University

Scottie H Buehler, PHD (scottiecpm@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Calif-Los Angeles; MA, Univ of Calif-Los Angeles; BA, Univ of Texas At Austin

Emma Kathleen Price Bullock, PHD (exb051@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Utah State University; MMATH, Utah State University; BS, Brigham Young University

Ferry Butar Butar, PHD (mth_fbb@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Lincoln; BS, Academy of Statistics; DRS, University of Indonesia

Sandra Vanesa Buzon Vargas, PHD (svb015@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Texas A&M University; MBA, National University of Colombia; BS, University of the North, Colombia

Patrick Buzzini, PHD (patrick.buzzini@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Lausanne; MS, University of Lausanne

C

Emily R Cabaniss, PHD (erc016@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, North Carolina State Univ; MA, Univ of N Carolina-Greensboro; BA, Univ of N Carolina-Greensboro

William John Calderhead, PHD (wjc011@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Oregon; MED, Univ of Maryland-College Park; MA, University of Virginia - SFS; BS, Univ of Maryland-College Park; BA, The Johns Hopkins University

Rhonda L Callaway, PHD (rlc005@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Univ of North Texas; MA, Univ of North Texas; BA, Univ of Texas At Austin

Kiana Ellen Cano, PHD (kec112@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Univ of Houston-Main

Patricia Card, DMA (mus_ppc@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of North Texas; MMUS, Univ of Michigan; BM, Univ of North Texas

Linda G Carrington, PHD (carrington@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Univ of Maryland-College Park; MBA, Univ of Kentucky; BBA, Eastern Kentucky University

Christopher Frank Cascio, MFA (cfc005@shsu.edu), *Assistant Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BFA, San Francisco Art Inst

Daniella Kelleigh Cash, PHD (dkc025@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, LSU & A&M College; MA, Univ of Alabama-Huntsville; BS, Florida Southern College

Christopher M Cassidy, PHD (cassidy@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Texas A&M University; MBA, Gonzaga University; BS, U.S.Air Force Academy

Scott Thomas Chapman, PHD (stc008@shsu.edu), *Distinguished Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Univ of N Carolina-Chapel Hill; BS, Wake Forest University; BS, Wake Forest University

Leila Dolce Character, PHD (leilacharacter@shsu.edu), *Assistant Professor of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BS, Univ of The South

Danhong Chen, PHD (dxc062@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Penn State Un-Univ Park; PHD, Penn State Un-Univ Park; MA, Southeast University; BA, Nanjing Agicultural University

Yixin Chen, PHD (cindychen@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, University at Buffalo, Suny; MA, Univ of Texas-El Paso; ME, Huaqiao University; BE, Huaqiao University

Paul W Child, PHD (pchild@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Notre Dame; MA, The Johns Hopkins University; MA, James Madison University; BA, Saint John'S University

Hyuk Cho, PHD (hxc005@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin; MA, Korea University; BE, Chonbuk National University

Jin Young Choi, PHD (jyc002@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Univ of Hawaii At Manoa; MA, Univ of Hawaii At Manoa; MPH, Univ of Hawaii At Manoa; MS, Ewha Women's University; BS, Ewha Women's University

Madhusudan Choudhary, PHD (mxc017@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, McMaster University; BSC, Patna University

Lindsay Camille Clark, PHD (lclark@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Oklahoma State University; MA, Midwestern State University; BA, Midwestern State University

Shelly Lynn Clevenger, PHD (sxc167@shsu.edu), *Professor and Chair of Victim Studies*, *Department of Victim Studies*, PHD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Indiana University of Pennsyl

Kevin Mark Clifton, PHD (kmc053@shsu.edu), *Associate Professor of Music*, *School of Music*, PHD, Univ of Texas At Austin; MM, Univ of Texas At Austin; BA, Austin College

Mona C Cockerham, PHD (mcc053@shsu.edu), *Assistant Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas HSC-Houston; MSN, Univ of Texas HSC-Houston; BS, Louisiana College

Corinna O Cole, PHD (lls_cvc@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Sam Houston State University

Julie P Combs, EDD (jpc002@shsu.edu), *Distinguished Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BS, Texas A&M University

Eric J Connolly, PHD (ejc025@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Univ of North Alabama; BA, West Virginia University

Mary A. Conroy, PHD (psy_mac@shsu.edu), *Distinguished Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Colorado State University; BA, Michigan State University

Alma Linda Contreras-Vanegas, PHD (alc058@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Jerry L. Cook, PHD (bio_jlc@shsu.edu), *Distinguished Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Colorado State Univ-Pueblo; BS, Colorado State Univ-Pueblo

Tamara J. Cook, PHD (bio_tjc@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Univ of Nebraska-Lincoln; BS, Univ of Nebraska-Lincoln

Brian Jay Cooper, PHD (bio_bjc@shsu.edu), *Associate Professor of Geology*, *Department of Environmental & Geosciences*, PHD, Virginia Polytechnic&State U; MS, Virginia Polytechnic&State U; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Beth L Cory, PHD (blc006@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, University of Virginia - SFS; MS, Florida State University; BS, Liberty University

Thomas H Cox, PHD (thc001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, University at Buffalo, Suny; MA, University at Buffalo, Suny; BA, Birmingham-Southern College; BS, Birmingham-Southern College; BS, Birmingham-Southern College

Jaime Leigh Coyne, PHD (jlb110@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Stephen F Austin University; BS, Sam Houston State University

Miltonette Olivia Craig, PHD (moc006@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; JD, Georgia State University; MS, Florida Int'L Univ; BA, Spelman College; BA, Spelman College

Nicholas Crawford, PHD (nxc082@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Harvard University; MA, Harvard University; BA, New York University

James William Crosby, PHD (jwc014@shsu.edu), *Professor of Psychology and Associate Dean CHSS*, *Department of Psychology & Philosophy*, PHD, Oklahoma State University; MS, Abilene Christian University; BS, Abilene Christian University

Dixuan Cui, PHD (dxc164@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Purdue University; MS, Purdue University; BS, Purdue University; BS, Purdue University

D

Lisa Joanne Dahlgren, PHD (lxv024@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; MA, Univ of Hawaii At Manoa; BA, Univ of Hawaii At Manoa

Ronald Jude Daigle, PHD (daigle@shsu.edu), *Distinguished Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Texas Tech University; BS, Univ of South Alabama

Jane C Daquin, PHD (jxd161@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Georgia State University; MS, Georgia State University; BA, University of Albany, Suny; BA, University of Albany, Suny

Jay Tyler Davidson, PHD (jxd115@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, West Virginia University; MS, West Virginia University; BS, Shippensburg University

Juan D Daza Vaca, PHD (jdd054@shsu.edu), *Associate Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Puerto Rico-Rio Piedra; MS, Univ of Puerto Rico-Rio Piedra; BS, Universidad del Valle

Fatih Demiroz, PHD (fxd009@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Central Florida; MPA, Univ of Central Florida; BA, Yeditepe University

Michael T Demson, PHD (mtd007@shsu.edu), *Professor of English*, *Department of English*, PHD, Grad Sch & Univ Center; MA, Grad Sch & Univ Center; BA, Reed College

Furjen Deng, PHD (soc_fjd@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Purdue University; MS, Purdue University; BA, National Taiwan University

Cosmas B Domonaamwin Dery, PHD (cdery@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Calgary; MA, Univ of Lethbridge; BA, University of Ghana

Jennifer Johnson Didier, PHD (jennifer.didier@shsu.edu), *Professor of Kinesiology; Chair of Kinesiology*, *Department of Kinesiology*, PHD, LSU & A&M College; MS, Texas A&M University; BS, Texas A&M University

Brandy Guntel Doleshal, PHD (bdoleshal@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Texas At Austin; BA, Indiana University; BS, Indiana University

John C Domino, PHD (pol_jcd@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Miami University; MA, Eastern Kentucky University; BA, Florida-Atlantic U

Robert E. Donahoo, PHD (eng_rxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Duke University; MA, Duke University; BA, Baylor University; BA, Baylor University

Karen M Douglas, PHD (kmd007@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Diane Dowdey, PHD (eng_dxd@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Wisconsin-Madison; MA, Univ of Missouri-Columbia; BA, Texas Christian University; BA, Texas Christian University

Lei Duan, PHD (lxd042@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Syracuse University; MPHIL, Syracuse University; MA, Univ of Massachusetts-Amherst; BA, Nankai University

Xiaoman Duan, PHD (xxd002@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Oklahoma-Norman; MA, Univ of Oklahoma-Norman; BS, Nankai University

E

Paul William Eaton, PHD (pwe003@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, LSU & A&M College; MED, Univ of Maryland-College Park; BA, Univ of Minnesota-Twin Cities

Thomas S Edelberg, PHD (edelberg@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Indiana University; MA, California St Un-Northridge; BA, Univ of Calif-Los Angeles

William D. Edgington, EDD (wedgington@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Oklahoma State University; MED, Midwestern State University; BSED, Texas Christian University

William A Ellegood, PHD (wxe002@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Missouri-St Louis; MBA, Ball State University; BS, Kettering University

Hatem Abdelrahman Omar Elshabrawy, PHD (hxe007@shsu.edu), *Assistant Professor of Microbiology, Immunology and Pathology*, *Department of Molecular & Cellular Biology*, PHD, Univ of Illinois-Chicago; BPHARM, Cairo University

Mevhibe Pinar Emiralioglu, PHD (mpe005@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Chicago; MA, Univ of Chicago; MA, Bilkent University; BA, Bogazici University

Trevor Kendrick England, PHD (txe008@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Kennesaw State University; JD, Nashville School of Law; MS, Univ of Connecticut; LLM, Univ of Alabama-Tuscaloosa; BS, Tennessee Tech University; BS, Tennessee Tech University

Jason S Enia, PHD (jason.enia@shsu.edu), *Professor and Chair of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Fordham University; BA, Univ of Dayton; BA, Univ of Dayton

Bryan Scott Stevens Espinosa, PHD (bse013@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of North Texas; MA, Univ of North Texas; BM, Univ of North Texas

Charlotte Rebekah Esplin, PHD (cre032@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Brigham Young University; MS, Brigham Young University; BS, Brigham Young University

Brent Cullen Estes, PHD (bce001@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Florida State University; MSS, U.S. Sports Academy; BS, Faulkner University

F

Linda Gail Fergus, PHD (lgf011@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, LSU & A&M College; MS, Texas Woman's University; BS, LSU & A&M College

Maria M Feu Lopez, PHD (mmf017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Hood College; BA, Universidad de Barcelona

Rebecca L Finley, MFA (rlf001@shsu.edu), *Professor of Photography and Chair of Art*, *Department of Art*, MFA, San Francisco Art Inst; MFA, San Francisco Art Inst; BA, Univ of Tennessee-Knoxville; BA, Univ of Tennessee-Knoxville

Jessica Caitlin Fleming, PHD (jcc063@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Sam Houston State University; PHD, Purdue University; MA, Sam Houston State University; BS, Sam Houston State University

Jamile Marmitt Forcelini, PHD (forcelini@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Florida State University; MA, Florida State University; BA, University of Passo Fundo

Andrea S Foster, PHD (asf004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Texas A&M University

Mark W. Frank, PHD (eco_mwf@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; BS, Texas A&M University

Matthew Bryan Fuller, PHD (mbf005@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Illinois State University; MS, Texas A&M University; BA, Texas A&M University

Mary C Funck, PHD (mcf012@shsu.edu), *Associate Professor of Finance and Acting Chair, Finance and Banking*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Western Illinois University; MS, Western Illinois University; BS, Western Illinois University

Marcus James Funk, PHD (mjf023@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Trinity University

G

Di Gao, PHD (dxg085@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, North Dakota State University; MA, Univ of Missouri-Columbia; BEC, Tianjin University; BBA, Tianjin University

Lesley Ann Gardiner, MD (lesley.gardiner@shsu.edu), *Assistant Professor of Pediatrics*, *Department of Primary Care & Clinical Medi*, MD, Texas A&M University; BS, Texas A&M-Corpus Christi

Jeffrey A Gardner, PHD (jag175@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Univ of Georgia; MA, Univ of Georgia; BA, Brigham Young University-Idaho

Randall L Garner, PHD (rgarner@shsu.edu), *Professor of Criminal Justice and Criminology and Associate Dean, COCJ*, *Department of Criminal Justice & Criminology*, PHD, Univ of Houston-Main; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Marcos Esteban Garza Madrid, PHD (marcos.garza@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, Instituto Tecnologico de Monterrey; MD, Instituto Tecnologico de Monterrey

Yvonne Garza-Chaves, PHD (yxg002@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MSW, Our Lady of Lake University; BSW, Univ of Texas-Pan American

Eduardo Geraldo de Campos, PHD (exg248@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Sao Paulo; MS, University of Sao Paulo; BS, University of Sao Paulo

Hannah R Gerber, PHD (hrg004@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Alabama-Tuscaloosa; MS, Florida State University; BA, Florida State University

Brian K Gibbs, PHD (bxg012@shsu.edu), *Professor of Music and Acting Associate Dean, CAM*, *School of Music*, PHD, Walden University; MS, Amberton University; BM, Southern Methodist University

Joshua M Gilliland, PHD (jmg177@shsu.edu), *Assistant Professor Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, LSU & A&M College; MS, Western Kentucky University; BS, University of Tulsa

Melissa Catharine Glasscock, MFA (mxg102@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Savannah College of Art & Desi; BFA, Univ of Central Florida

Amber Joyce Godwin, PHD (ajg007@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BA, Univ of West Florida

Fidel Gonzalez, PHD (fxg001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Texas At Austin; MS, Univ of Texas At Austin

Darren P Grant, PHD (dgrant@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Florida State University; BS, Florida State University

Adele Renee Gravois, PHD (rgl003@shsu.edu), *Associate Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Virginia Polytechnic&State U; MBA, Univ of Houston-Main; BA, Southeastern Louisiana Univ.; BA, Southeastern Louisiana Univ.

Allan David Grogan, PHD (stdadg27@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Concordia University-Canada; MS, Concordia University-Canada; MBA, Sam Houston State University; BS, Sam Houston State University

Dustin E Gross, PHD (deg013@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Texas At Austin; BS, Univ of Arizona

Elizabeth A Gross, PHD (eag041@shsu.edu), *Associate Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Wayne State University; MLIS, Wayne State University; BA, Northern Michigan University

Ross Joseph Guida, PHD (ross.guida@shsu.edu), *Associate Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Southern Illinois U-Carbondale; MS, Univ of Nevada-Las Vegas; BA, Univ of Wisconsin-Eau Claire

Christina Marie Gushanas, PHD (cgushanas@shsu.edu), *Eleanor and Charles Garrett Endowed Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BS, Lamar University

Jose Antonio Gutierrez, PHD (jag063@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Texas-San Antonio; MS, Univ of Texas-San Antonio; BBA, Univ of Texas-San Antonio

H

Donovan C Haines, PHD (dch009@shsu.edu), *Professor and Chair of Chemistry*, *Department of Chemistry*, PHD, Wichita State University; BS, Wichita State University

Mark S Hainline, PHD (msh004@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MS, Texas Tech University; BS, Sam Houston State University

Sirkka Helena Halmari, PHD (halmari@shsu.edu), *Distinguished Professor of English*, *Department of English*, PHD, Univ of Southern California; MA, Univ of Southern California; MA, California St Un-San Bernardin; MSS, University of Tampere; MA, University of Tampere; BA, University of Tampere

James Michael Harper, PHD (jmharper@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Idaho; BS, Suny College At Geneseo

John P Harris, PHD (jph020@shsu.edu), *Associate Professor of Geology of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Texas A&M University; MS, Univ of Arkansas-Fayetteville; BS, Univ of Arkansas-Fayetteville

Elizabeth Noel Hartsell, PHD (enh033@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Florida; MA, Univ of Florida; BA, North Carolina State Univ

Sharmin Hasan, PHD (sxh130@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Tokyo; MS, Univ of Tokyo; BSC, Univ of Rajshahi

Cherine Hatem, PHD (cxh164@shsu.edu), *Assistant Professor of Food Science and Nutrition*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Case Western Reserve Univ; BS, John Carroll University

Damon Martin Hay, PHD (dhay@shsu.edu), *Associate Professor and Chair of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of Houston-Main; MS, Univ of Houston-Main; BS, Univ of Texas At Austin

Joshua S Haynes, PHD (jsh064@shsu.edu), *Assistant Professor of History*, *Department of History*, PHD, Univ of Georgia; MA, Univ of Mississippi; BA, Tulane University

Charles Victor Heath, PHD (cvh003@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Tulane University; MA, Tulane University; BA, Tulane University

Dustin Michael Hebert, PHD (dmh104@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; EDSP, LSU & A&M College; MED, McNeese State University; BS, McNeese State University

Emily Catherine Howes Heilman, DM (ech035@shsu.edu), *Assistant Professor of Music*, *School of Music*, DM, Florida State University; MM, Univ of Louisville; BM, Univ of Louisville

Cassy Daniels Henderson, PHD (cdh045@shsu.edu), *Professor and Acting Chair of Accounting*, *Department of Accounting*, PHD, Univ of Texas-El Paso; BBA, Univ of Texas-El Paso

Craig E Henderson, PHD (ceh003@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of North Texas; MA, Hardin Simmons University; BS, Howard Payne University; BS, Howard Payne University

Susan Elizabeth Henderson, PHD (shenderson@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Sam Houston State University; MA, Hardin Simmons University; BS, Stephen F Austin University

Shaina Marie Herman, PHD (sxh169@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, University of Albany, Suny; MA, University of Albany, Suny; BA, Indiana Univ of Pa

Mayrena Isamar Hernandez, PHD (mih012@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Wisconsin-Madison; MPH, Kansas State University; BS, Univ of Texas-Arlington

Desiree Gretchen Hickman, EDD (dgh029@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Jackson State University; MS, Jackson State University; BS, Alcorn State University

Joseph C Hill, PHD (jch031@shsu.edu), *Associate Professor and Chair of Environmental and Geosciences*, *Department of Environmental & Geosciences*, PHD, Univ of Missouri-Columbia; PHD, Univ of Missouri-Columbia; MS, Univ of Tennessee-Knoxville; MS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville

Jamie H Hinojosa, MD (jaime.hinojosa@shsu.edu), *Assistant Professor of Anatomy and Histology*, *Department of Clinical Anatomy*, MD, Univ of Texas HSC-Houston; MS, Lincoln Memorial University; BS, Univ of Texas-Brownsville

Meagan Elizabeth Hinze, PHD (meh066@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Cornell University; MS, Cornell University; BS, Butler University

Christopher Eugene Hobbs, PHD (ceh079@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Texas A&M University; BS, Angelo State University

Carly Ann Hoffmann, PHD (cahoffmann@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas Tech University; BS, Texas A&M University

Victoria Smith Hollas, PHD (torihollas@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; BA, Houston Christian University

Melinda Ann Holt, PHD (mxm014@shsu.edu), *Professor of Statistics and Dean, COSET*, *Department of Mathematics & Statistics*, PHD, Baylor University; MA, Baylor University; BA, Baylor University

Peggy Philpot Holzweiss, PHD (pholzweiss@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Kaitlin Ann Hopkins, PHD (kah147@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Stephen F Austin University; BS, Stephen F Austin University

Rachel Michelle Houston, PHD (rmh034@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Univ of Texas At Dallas

Henry E. Howey, DMA (mus_heh@shsu.edu), *Professor of Music*, *School of Music*, DMA, University of Iowa; MMUS, Univ of Illinois-Urbana; BMUS, Univ of Illinois-Urbana

TzeLi Hsu, PHD (thsu@shsu.edu), *Associate Professor of Sociology*, *Department of Sociology*, PHD, Florida State University; MS, Mississippi State University; BA, National Taiwan University

Yao Huang, PHD (yxh051@shsu.edu), *Assistant Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Florida State University; MS, The University of Memphis; BA, University of Electronic Science & Tech of China

Caleb George Hubbard, PHD (cgh034@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Oklahoma-Norman; MA, West Texas A&M State Univ; BS, West Texas A&M State Univ

Adam L Hubrig, PHD (axh151@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BA, Concordia University

Lesley L Hughes, PHD (llh036@shsu.edu), *Assistant Professor of Music*, *School of Music*, PHD, Univ of Wisconsin-Madison; DMA, Univ of Wisconsin-Madison; MA, Univ of Wisconsin-Madison; BM, Univ of Kansas

Sheree Robyn Hughes, PHD (sxh039@shsu.edu), *Professor and Chair of Forensic Science*, *Department of Forensic Science*, PHD, Bond University; BS, University of Queensland (The)

I

Laura Theresa Iesue, PHD (lti002@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Miami; MA, New Mexico State University; BS, Ohio State University

Jason R Ingram, PHD (jri004@shsu.edu), *Professor and Chair of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MA, Southern Illinois U-Carbondale; BA, Southern Illinois U-Carbondale

ABM Rezbaul Islam, PHD (ari014@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of North Texas; MS, Ajou University; BSC, Shahjalal Univ of Sci & Techno

J

Farid Jahantab, PHD (fxj007@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Texas-El Paso; MA, London Metropolitan University; BE, Khaje Nasir Toosi University of Technology

William A. Jasper, PHD (mth_waj@shsu.edu), *Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Univ of Southern California; BS, Lafayette College

Kurt R Jesswein, PHD (jesswein@shsu.edu), *Associate Professor of Finance and Acting Chair, Econ & Intl Business*, *Department of Finance & Banking*, PHD, Univ of S Carolina-Columbia; MIB, Univ of S Carolina-Columbia; BBA, Univ of Wisconsin-Whitewater

Haodi Jiang, PHD (hxj024@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, New Jersey Institute of Techn; MS, Florida Int'L Univ; BE, Southwest University

Robyn MacKenzie Johnson, PHD (rmj036@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Calif-Riverside; AM, Univ of Tennessee-Chattanooga; BA, Depaul University

Steve J Johnson, PHD (sjj008@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Utah; MS, Univ of Nebraska-Lincoln; BA, Union College

Carla D Jones, PHD (cdj033@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Arizona State University; MBA, Northwestern University; BS, California St Un-Northridge

Nathan P Jones, PHD (nxj008@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; BA, Univ of Calif-Berkeley

Brian Matthew Jordan, PHD (bmj018@shsu.edu), *Associate Professor and Chair of History*, *Department of History*, PHD, Yale University; MA, Yale University; MPHIL, Yale University; BA, Gettysburg College

Maribeth Frances Jorgensen, PHD (mxj040@shsu.edu), *Associate Professor of Counselor Education and Assistant Dean, COED*, *Department of Counselor Education*, PHD, The University of South Dakota; MSED, Univ of Nebraska-Kearney; BS, Univ of Nebraska-Kearney

Praphul Joshi, PHD (pxj015@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Univ of S Carolina-Columbia; MPH, Univ of S Carolina-Columbia; BDS, Bangalore University

K

Ram Chandra Kafle, PHD (rckafle@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MS, Univ of Akron; MS, Tribhuvan University; BS, Tribhuvan University

Timothy S. Kalafut, PHD (tim.kalafut@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Texas A&M University; BA, Whitworth College

Anand Bahadur Karki, PHD (abk019@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, University of Tulsa; MS, Tribhuvan University; BS, Tribhuvan University

Scott Aaron Kaukonen, PHD (kaukonen@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Univ of Missouri-Columbia; MFA, Univ of Arizona; BA, Hope College

Masoud Kazemzadeh, PHD (mxk002@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Univ of Minnesota-Twin Cities

Rosanne S Keathley, PHD (hpe_rsk@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Texas A&M University; MA, Sam Houston State University; BAT, Sam Houston State University

Stanley F. Kelley, PHD (sfkelley@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Owen Joseph Kelly, PHD (ojk003@shsu.edu), *Assistant Professor of Nutrition*, *Department of Molecular & Cellular Biology*, PHD, University College Cork; BSC, University College Cork

Khalid Mahmood Khan, DPH (kxk051@shsu.edu), *Associate Professor of Public Health*, *Department of Public Health*, DPH, Columbia University; MSC, University of Dhaka; BSC, University of Dhaka

Parichehr Kianian, PHD (pkianian@shsu.edu), *Assistant Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Houston-Main; MBA, Univ of Tehran-Iran; BSC, Sharif Univ of Technology

Bit Na Kim, PHD (bitna.kim@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MA, Chungbuk National University; BA, Chungbuk National University

Doo Young Kim, PHD (dkim@shsu.edu), *Associate Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Ball State University; BS, Gachon University

Min Hyun Kim, PHD (mxk056@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of New Mexico; MA, California St Un-San Bernardin; BPED, Kyung Hee Univ Seoul; BPED, Kyung Hee Univ Seoul

Nam Young Kim, PHD (nyk001@shsu.edu), *Professor and Chair of Mass Communication*, *Department of Mass Communication*, PHD, LSU & A&M College; MA, Penn State Un-Univ Park; MAC, Sookmyung Women's University; BA, Sookmyung Women's University

Youn Oh Kim, PHD (younoh@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Univ of Southern California; BA, Ewha Womans Univ.

Kyle Douglas Kindred, DMA (kdk001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Texas At Austin; MM, Univ of Texas At Austin; BM, Wichita State University

Kimberly Campbell Kinnaird, PHD (kck017@shsu.edu), *Assistant Professor of Library Science*, *Department of Library Sci & Technology*, PHD, Texas Woman's University; MLS, Texas Woman's University; BS, Texas A&M University

Alexander Boone Kinney, PHD (akinney@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Arizona; MA, Univ of Arizona; BA, Penn State University

Tracy Rouly Knight, EDD (trk033@shsu.edu), *Associate Professor of American Sign Language*, *Department of World Languages & Cultures*, EDD, Lamar University; MS, Lamar University; BA, Gallaudet University

Ginger Y Ko, PHD (gingerko@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Georgia; MFA, Univ of Wyoming; BS, Indiana University-Bloomington; BA, Univ of Calif-Los Angeles

Steven David Koether, PHD (stevenkoether@shsu.edu), *Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Texas A&M University

Gerald Kohers, PHD (kohers@shsu.edu), *Professor of Management Information Systems and Chair, Dept of Mgmt and Mktg*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Virginia Polytechnic&State U; MBA, Virginia Polytechnic&State U; BS, Mississippi State University

Stuti Subbaiah Kokkalera, PHD (sxk078@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Northeastern University; LLM, Georgetown University; LLB, Gujarat University

Andrey Vitalyevich Koptelov, PHD (axk022@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Academy of Pedagogical Science; BED, Kirov State Pedagogical Inst

Colton Ellis Krawietz, PHD (cek043@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Texas At Austin; MED, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, LSU & A&M College

Naomi Lynne Krawzik, PHD (stdnlv11@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of North Texas; MS, Sam Houston State University; BS, Alma College

Eroll Kuhn, PHD (exk026@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of N Carolina-Chapel Hill; MA, Univ of N Carolina-Chapel Hill; BA, Vassar College; BA, Vassar College

Lana Kuscer, DMA (lxk025@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of North Texas; MM, Hochschule fur Musik und Theat; BM, Royal College of Music

L

Kimberly N LaPrairie, PHD (knl007@shsu.edu), *Professor of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, LSU & A&M College; MED, Univ of Louisiana-Lafayette; BBA, Henderson State University

Leena Jo Landmark, PHD (landmark@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

John W Lane, DMA (jwl002@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of North Texas; BM, Stephen F Austin University

Mae Ann Lane, EDD (mal024@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, East Texas A&M; BA, Abilene Christian University

Hillary Anne Langley, PHD (hlangley@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of N Carolina-Chapel Hill; BA, Univ of N Carolina-Chapel Hill

Nicolas J Lantz, MFA (nick.lantz@shsu.edu), *Professor of English*, *Department of English*, MFA, Univ of Wisconsin-Madison; BA, Lewis & Clark College

Wanda Edelis Leal, PHD (wel004@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BS, Florida State University

Heejin Lee, PHD (heejin.lee@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; LLB, Korean National Police Univers

Peter Scott Lehmann, PHD (psl003@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Furman University

Mark R Leipnik, PHD (geo_mrl@shsu.edu), *Professor of Geography and Geology*, *Department of Environmental & Geosciences*, PHD, Univ of Calif-Santa Barbara; MBA, Rice University; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Patrick J Lewis, PHD (pjl001@shsu.edu), *Professor of Biology, Associate Dean of Honors College*, *Department of Biological Sciences*, PHD, Duke University; MS, Texas Tech University; BA, Texas Tech University

Chi-Sing Li, PHD (dcl001@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, East Texas A&M; MED, Univ of Louisiana-Monroe; MED, Univ of Louisiana-Monroe; BA, Univ of Texas At Austin

Peiyao Li, PHD (pxl043@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; MPA, Wuhan University

Fan Liang, MS (fxl027@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Univ of Massachusetts-Dartmout; BS, Northwestern Polytechnic Univ; DSC, Towson State University

Sungdae Lim, PHD (slim@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Florida State University; MPA, Florida State University; BPA, Soongsil University

Jeffrey L Littlejohn, PHD (jll004@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Arkansas-Fayetteville; MA, Univ of Arkansas-Fayetteville; BA, Belmont University

Qingzhong Liu, PHD (qxl005@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, New Mexico Inst/Mining/Tech; ME, Sichuan University; BE, Northwestern Polytechnic Univ

Xing Liu, MS (xxl020@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, MS, Lawrence Inst. of Tc; BE, Shanghai Univ of Engr Science; DSC, Towson State University

Yu Liu, PHD (yxl068@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, Emory University; MPH, Yale University; BBA, Nankai University

Mario G Loomis, MD (mxl107@shsu.edu), *Associate Professor of Anatomy and Chair, Clinical Anatomy*, *Department of Clinical Anatomy*, MD, Univ of Vermont&State Agr Col; AB, Cornell University

Tabbetha Dawn Lopez, PHD (tdl030@shsu.edu), *Assistant Professor of Food Science & Nutrition and Dietetics Director*, *Department of Human Sciences*, PHD, Univ of Houston-Main; MS, Texas Tech University; BS, Univ of Houston-Main; BS, Univ of Houston-Main

Wojciech Lorenc, MFA (wlorenc@shsu.edu), *Professor of Mass Communication*, *Department of Mass Communication*, MFA, Depaul University; BA, Columbia College-Chicago

Anna Hommadova Lu, PHD (anyalu@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; PHD, University of Tsukuba; MA, University of Tsukuba; BA, Minnesota State Un-Moorhead

Connor James Lubojacky, PHD (cjl076@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Houston-Main; MSC, Univ of Edinburgh; BS, Univ of Texas At Dallas; BS, Univ of Texas At Dallas; BS, Univ of Texas At Dallas

Russell P Lundberg, PHD (rxl027@shsu.edu), *Associate Professor of Security Studies*, *Department of Security Studies*, PHD, Pardee Rand Graduate School; MPHIL, Pardee Rand Graduate School; MPP, Univ of Maryland-College Park; BA, Hope College

William I Lutterschmidt, PHD (bio_wil@shsu.edu), *Distinguished Professor of Biology*, *Department of Biological Sciences*, PHD, Univ of Oklahoma-Norman; MS, Southeastern Louisiana Univ.; BS, De Sales University

Aaron Matthew Lynne, PHD (aml027@shsu.edu), *Professor and Chair of Biological Sciences*, *Department of Biological Sciences*, PHD, North Dakota State University; BS, North Dakota State University

M

Junkun Ma, PHD (jxm158@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Calif-San Diego; MS, N China Electric Power Univ; BE, Tsinghua University

Martin E Malandro, PHD (mem037@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Dartmouth College; AM, Dartmouth College; BS, Texas Tech University

Tiffany Robin Nicole Maldonado, PHD (tmaldonado@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Houston-Main; BA, Rice University; BA, Rice University

Enrique Mallen, PHD (edm012@shsu.edu), *Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Cornell University; MA, Cornell University; MA, Universidad de Sevilla

Ananda Bandulasiri Manage, PHD (amanage@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; MS, Sam Houston State University; BS, University of Kelaniya

Balasundram Maniam, PHD (gba_bxm@shsu.edu), *Distinguished Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Mississippi; MBA, Arkansas State University; BS, Arkansas State University

Ryan J Marek, PHD (rxm147@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Kent State University; MA, Kent State University; BS, John Carroll University

Taylor Elizabeth Martin, PHD (taylor.martin@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Rice University; MA, Rice University; BA, Univ of Rochester; BS, Univ of Rochester

Cynthia Martinez-Garcia, EDD (cmg021@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Texas A&M-Kingsville; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

Nara Martirosyan, EDD (nxm021@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MS, Grambling State Univ; BA, Tatev Pedagogical University

Giuseppe Martone, PHD (gxm120@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Southern California; MS, University of Rome, Sapienza; BS, University of Rome, Sapienza

Huda Masood, PHD (hxm040@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, York University; MA, Adler University, Chicago; BSC, York University

David C Mayes, PHD (his_dcm@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Wisconsin-Madison; MA, Univ of Richmond; BA, Univ of Richmond

Mayra Alexandra Mayr-Eduardoff, PHD (mayra.eduardoff@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Medical University of Innsbruck; MSC, University of Innsbruck; BA, University of Sussex (UK)

William Matthew Mc Inturf, DMA (mus_wmm@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Cincinnati; MM, Univ of Houston-Main; BMUS, Univ of North Texas

Joyce Kay McCauley, PHD (edu_jkm@shsu.edu), *Distinguished Professor of Education*, *Department of Teaching & Learning*, PHD, Texas Woman's University; MED, Univ of Guam; BA, Univ of South Florida

Zoe Nicole McDonald, PHD (znm004@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Nebraska-Lincoln; MA, Univ of Vermont&State Agr Col; BA, Univ of Wyoming

Kenneth Bruce McIntyre, PHD (kbm014@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Tulane University; MS, University of Wales; MA, Tulane University; BA, Princeton University

Jessica Ann McQueston, PHD (jam391@shsu.edu), *Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Wisconsin-Madison; MA, Univ of New Mexico; BSED, Univ of New Mexico; CERT, Univ of New Mexico

Ali Mchiri, PHD (amchiri@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, New Mexico State University; MBA, New Mexico State University; BBA, Univ of Texas-El Paso

Melissa L Mednicov, PHD (mmednicov@shsu.edu), *Associate Professor of Art*, *Department of Art*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; BA, Smith College

Sanjay S. Mehta, PHD (mkt_ssm@shsu.edu), *Professor of Marketing*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of North Texas; MS, Univ of North Texas; MBA, Angelo State University; BS, Angelo State University

Chris C. Michel, MM (mus_ccm@shsu.edu), *Associate Professor of Music*, *School of Music*, MM, Ohio State University; BM, Baylor University

Holly A Miller, PHD (psy_ham@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MA, Morehead State University; BA, Bethel College

Lee Mary Miller, PHD (lee.miller@shsu.edu), *Professor of Sociology*, *Department of Sociology*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; AB, Smith College

Melinda Sue Miller, PHD (lls_msm@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Sam Houston State University; BSED, Univ of Texas At Austin

Scott T Miller, PHD (stm009@shsu.edu), *Professor of Physics*, *Department of Physics & Astronomy*, PHD, Univ of Maryland-College Park; MS, Univ of Maryland-College Park; BA, Rutgers University; BS, Rutgers University

Felicia Leila Mirghassemi, PHD (flm002@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas At Tyler; BS, Univ of Texas At Tyler

Geraldine Isabelle Christ Monjardez, PHD (g.monjardez@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Manchester; MS, Cranfield University; BS, University of Cent Lancashire

Ricardo Montelongo, PHD (rxm059@shsu.edu), *Associate Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Indiana University; MS, Texas A&M University; BS, Texas A&M University

Nadav Morag, PHD (nxm040@shsu.edu), *Professor and Chair of Security Studies*, *Department of Security Studies*, PHD, Tel Aviv University; MA, Univ of Calif-Los Angeles; BA, Univ of Calif-Los Angeles

Philip W Morris, PHD (aac_pwm@shsu.edu), *Professor of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Univ of Houston-Clear Lake; MBA, Sam Houston State University; BBA, Sam Houston State University

Sachin Dheeraj Mudigonda, MFA (sxm259@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MFA, Univ of Texas At Austin; MS, Arizona State University

Falguni Shyamal Mukherjee, PHD (fsm002@shsu.edu), *Associate Dean of The Graduate School, Ombuds, and Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Wisconsin-Milwaukee; MS, Univ of Texas At Dallas; BE, Birla Institute of Tech & Sci

Sureni Visaka Mullegama, PHD (svm013@shsu.edu), *Assistant Professor of Genetics*, *Department of Molecular & Cellular Biology*, PHD, Virginia Commonwealth Univ; BS, Univ of Minnesota-Twin Cities

Philip W Mulvey, PHD (pwm010@shsu.edu), *Associate Professor of Victim Studies*, *Department of Victim Studies*, PHD, Arizona State University; MA, Boston College; BS, Univ of Illinois-Urbana

Audrey D Murfin, PHD (adm034@shsu.edu), *Associate Professor of English*, *Department of English*, PHD, Suny At Binghamton; MA, Suny At Binghamton; BA, Reed College

N

Diana Kay Nabors, EDD (lls_dkn@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Univ of Houston-Main

Carroll F. Nardone, PHD (cfnardone@shsu.edu), *Professor of English and Associate Dean, CHSS*, *Department of English*, PHD, New Mexico State University; MA, Ohio State University; BA, Univ of Texas-El Paso

Chelsey Samara Narvey, PHD (cxn042@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; BA, Concordia University

Hiranya K Nath, PHD (eco_hkn@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Southern Methodist University; MA, Southern Methodist University; MPHIL, Jawaharlal Nehru University; MA, University of Delhi; BA, University of Delhi

Adam P Natoli, PHD (apn017@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Adelphi University; MA, Adelphi University; MS, Eastern Michigan University; BA, Rider University

John Charles Navarro, PHD (jxn044@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Louisville; MS, Illinois State University; BS, Illinois State University

Velvet A Nelson, PHD (van001@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Kent State University; MA, East Carolina Univ; BSBA, West Liberty State College

Steve A Nenninger, PHD (san009@shsu.edu), *Associate Professor of Finance*, *Department of Finance & Banking*, PHD, Southern Illinois U-Carbondale; MBA, Southeast Missouri State Univ; BSBA, Southeast Missouri State Univ

Diane L. Neudorf, PHD (bio_dln@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, York University; MSC, University of Manitoba; BSC, University of Manitoba

Adele Nickel, MFA (axn051@shsu.edu), *Assistant Professor of Dance*, *Department of Dance*, MFA, Univ of Washington; BA, New School/Soc Rsrch

Lautrice Mc Carty Nickson, PHD (lmn005@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Prairie View A&M University; MED, Sam Houston State University; MED, Loyola University Maryland; BS, Mississippi State University

Andrew M Noble, MFA (amn008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Florida State University; BA, Univ of South Florida

Dionne L Noble, MFA (dln008@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Univ of Utah; BA, Univ of South Florida

Brooke Elizatbeth Nodeland, PHD (ben012@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of North Texas; BS, Univ of North Texas

Ramona M Noland, PHD (psy_rmn@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Tennessee-Knoxville; BA, Wheeling College

Braden Edward Norris, PHD (benorris9@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Indiana University; MS, Indiana University; MS, Indiana University; BS, Indiana University

O

April Lynn OBrien, PHD (aprilobrien@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Clemson University; MA, Suny Coll of Buffalo; BA, Grove City College

Willard M Oliver, PHD (icc_wmo@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, West Virginia University; MA, West Virginia University; MS, Radford University; BS, Radford University

Seth David Olson, PHD (sxo036@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Kent State University; PHD, Kent State University; MA, The University of South Dakota; BA, Univ of Nebraska-Lincoln

Erin Anderson Orrick, PHD (eorrick@shsu.edu), *Professor and Associate Dean of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MA, Univ of Maryland-College Park; BSCJ, Texas Christian University

Pablo Alberto Ortega Poveda, PHD (pao016@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Arizona State University; BA, Universidad Javeriana

P

Lillie Vivian Ka Padilla, PHD (lvp005@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Arizona State University; MA, Arizona State University; BA, University of Ghana; BA, University of Ghana

Shyam Bahadur Pandey, PHD (sbp029@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Purdue University; MA, Minnesota State Univ-Mankato; MED, Kathmandu University, Nepal; BED, Tribhuvan University

Timothy R. Pannkuk, PHD (agr_trp@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Brittany Leigh Paris, PHD (blp054@shsu.edu), *Assistant Professor of Animal Science*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Benjamin E Park, PHD (bep013@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Cambridge; MPHIL, Univ of Cambridge; MS, Univ of Edinburgh; BA, Brigham Young University; BA, Brigham Young University

John B Pascarella, PHD (jbp014@shsu.edu), *Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Univ of Miami; BA, Univ of Kansas; BS, Univ of Kansas; BS, Univ of Kansas

Erica Ann Pasquini, PHD (exp043@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Southern Mississippi; MS, Ball State University; BS, Univ of New Orleans

Emily Ann Peacock, MFA (stdeap16@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Houston-Main; BS, Sam Houston State University

Recayi Pecen, PHD (regpecen@shsu.edu), *Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Wyoming; MS, Univ of Colorado; MSC, Istanbul Univ; BSC, Istanbul Univ

Ilona Petrikovics, PHD (ixp004@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ Debrecen Med & Health Sci; PHD, Kossuth Laos University; MSC, Univ Debrecen Med & Health Sci

Mary Ann Petron, PHD (map042@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MA, Northwestern University; BSED, Univ of Wisconsin-Madison

Van Vung Pham, PHD (vung.pham@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas Tech University; MS, Politecnico Di Milano; BS, President University

Chi Hoang Do Phan, PHD (chp007@shsu.edu), *Assistant Professor of Mathematics and Statistics*, *Department of Mathematics & Statistics*, PHD, Univ of South Florida; MA, Univ of South Florida; BA, Univ of South Florida

Javier A Pinell, DM (jap032@shsu.edu), *Professor of Music*, *School of Music*, DM, Florida State University; MM, Miami University; BM, Wayne State University

Ronald Eric Platt, PHD (eep032@shsu.edu), *Professor and Chair of Educational Leadership*, *Department of Educational Leadership*, PHD, LSU & A&M College; MED, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Scott D Plugge, DM (mus_sdp@shsu.edu), *Professor and Chair of Music*, *School of Music*, DM, Northwestern University; MM, Northwestern University; BM, Baylor University

Jennifer Karen Pontius, MFA (dnc_jkp@shsu.edu), *Associate Professor and Chair of Dance*, *Department of Dance*, MFA, Florida State University; MA, California St Un-Dominguez Hil; BA, Univ of Alabama-Birmingham

Jalene Paige Potter, PHD (jpp015@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M-Corpus Christi; MS, Texas A&M-Corpus Christi; BS, Texas A&M-Corpus Christi

George Prada, MD (gxp073@shsu.edu), *Assistant Professor of Anatomical Sciences*, *Department of Clinical Anatomy*, MD, Universidad Autonoma of Guadalajara; BS, Univ of Illinois-Chicago

Todd P Primm, PHD (tprimm@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Baylor College of Medicine; BS, Texas A&M University

Bernadette Pruitt, PHD (his_bxp@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Univ of Houston-Main; MA, Texas Southern University; BA, Texas Southern University

Q

Uzma Quraishi, PHD (uxq001@shsu.edu), *Associate Professor of History*, *Department of History*, PHD, Rice University; MA, Rice University; MA, Univ of Houston-Main; BA, Univ of Houston-Main; BA, Univ of Houston-Main

R

Vlad Marius Radoias, PHD (radoias@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Southern California; MA, Central Michigan Univ; BA, Bucharest Acad of Eco Studies

Javier Ramos, PHD (jxr248@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Florida State University; MS, Florida State University; BA, Univ of Texas At Austin

Ryan Wayne Randa, PHD (rxr042@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MS, Univ of Cincinnati; BS, Univ of Wisconsin-Superior

George Kevin Randall, PHD (gkr001@shsu.edu), *Professor of Public Health*, *Department of Public Health*, PHD, Iowa State University; MS, Iowa State University; BSED, Illinois State University

Christopher P Randle, PHD (cpr003@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Ohio State University; BA, Hiram College

Stephen H Rapp, PHD (srapp@shsu.edu), *Professor of History*, *Department of History*, PHD, Univ of Michigan; MA, Univ of Michigan; BA, Indiana University

Christian Werner Raschke, PHD (raschke@shsu.edu), *Associate Professor of Economics*, *Department of Economics & Intl Business*, PHD, LSU & A&M College; MS, LSU & A&M College; BS, Southeast Missouri State Univ

Amar Adnan Rasheed, PHD (axr249@shsu.edu), *Assistant Professor of Computer Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Northeastern Illinois Univ; BS, University of Bagdad

Kathleen Rene Ratajczak, PHD (kxr084@shsu.edu), *Assistant Professor of Victim Studies*, *Department of Victim Studies*, PHD, Univ of Kentucky; MA, Univ of Cincinnati; BA, John Carroll University

Chelsea Gilts Ratcliff, PHD (chelsea.ratcliff@shsu.edu), *Associate Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BA, Trinity University

Shekhar Rathor, PHD (sxr177@shsu.edu), *Assistant Professor of Management Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Florida Int'L Univ; MCA, Panjab University; BS, Himachal Pradesh University

Amy E Ray, PHD (aer066@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Michigan State University; MS, Michigan State University; MED, Texas Christian University; BS, Texas Christian University

Jolene Buxton Reed, PHD (jreed@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of New Mexico; MA, Univ of New Mexico; BS, Brigham Young University

Rebecca Lee Renfro, DMA (rrg012@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Connecticut; MM, New England Consv/Music; BBA, Sam Houston State University; BM, Sam Houston State University

Clare Amparito Resilla, EDD (clr067@shsu.edu), *Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Lamar University; BA, St. Theresa's College

Chad Allen Reynolds, PHD (car020@shsu.edu), *Assistant Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Missouri-Columbia; MS, Sam Houston State University; BS, Sam Houston State University

Diego Ribeiro Caetano, DMA (dxr105@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Colorado; MM, Univ of Wyoming; BM, Federal University of Goias

Kathleen Ann Rice, PHD (kar084@shsu.edu), *Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of N Carolina-Charlotte; MS, South Dakota State University; BS, South Dakota-Mines/Tech

Shelley Ann Riggs, PHD (sxr142@shsu.edu), *Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of Texas At Austin; BA, Univ of Texas At Austin

Jason Matthew Riley, PHD (jmr099@shsu.edu), *Associate Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Clemson University; MBA, Michigan State University; BA, Iowa State University

Tommy J Robertson, JD (joey_robertson@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; BS, Texas A&M University

Petra Rocic, PHD (pxr037@shsu.edu), *Associate Professor of Physiology*, *Department of Physiology & Pharmacology*, PHD, Univ of Alabama-Birmingham; PHD, Univ of Alabama-Birmingham; BA, Oberlin College

Mitchel P Roth, PHD (icc_mpr@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Santa Barbara; MA, Univ of Calif-Santa Barbara; BA, Univ of Maryland-College Park

Jared Robert Ruchensky, PHD (jrr107@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Texas A&M University; MS, Texas A&M University; BA, Creighton University

Danielle Sheldon Rudes, PHD (drudes@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; MA, Univ of New Orleans; BA, Suny At Plattsburgh

ILonka Livia Rus, DMA (lir001@shsu.edu), *Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Univ of Houston-Main; BM, Oberlin College

S

Daniel Saenz, DMA (dxs007@shsu.edu), *Associate Professor of Music*, *School of Music*, DMA, Univ of Houston-Main; MM, Rice University; BM, Univ of Rochester

Elisa Salem Herrmann, EDD (exh041@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, EDD, Sam Houston State University; MFA, Southern Illinois U-Carbondale; BED, Federal University of Parana

Supun Thamara Samarakoon, PHD (ssamarakoon@shsu.edu), *Assistant Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, University of Colombo

Jose Alberto Santiago, EDD (jas083@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas Southern University; MA, Indiana State University; BA, Univ of Puerto Rico-Rio Piedra

Kiran Sapkota, PHD (kxs133@shsu.edu), *Assistant Professor of Public Health*, *Department of Public Health*, PHD, University of Iowa; PHD, University of Iowa; MS, University of Iowa; MPH, New Mexico State University; MS, New Mexico State University; MS, Tribhuvan University; BS, Tribhuvan University

Raisa Tasnim Sara, PHD (rts021@shsu.edu), *Assistant Professor of Economics*, *Department of Economics & Intl Business*, PHD, Texas A&M University; MSC, Univ of London - School Econ; BSC, Queen Mary Univ of London

Kristin Amanda Sarvela, DMA (kas192@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Univ of Illinois-Urbana; MM, Indiana University-Bloomington; BM, Univ of Illinois-Urbana

Philip Ryan Saucier, MS (ryansaucier@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

David Patrick Saxon, EDD (dps006@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Grambling State Univ; MBA, Appalachian State University; BSBA, Appalachian State University

Amanda Walters Scarbrough, PHD (aes060@shsu.edu), *Associate Professor and Acting Chair of Public Health*, *Department of Public Health*, PHD, Univ of Texas Medical Branch; MHSA, George Washington University; BA, De Pauw University

Stephen Mark Scariano, PHD (sms049@shsu.edu), *Professor of Statistics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Texas Tech University; BS, Loyola Univ-New Orleans

Richard Neal Schaugaard, PHD (rschaugaard@shsu.edu), *Assistant Professor of Chemistry*, *Department of Chemistry*, PHD, Indiana University; BS, Univ of Washington

Nicholas Leonard Scheel, PHD (nls046@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Wisconsin-Green Bay

Mary Larue Scherer, PHD (mxs168@shsu.edu), *Assistant Professor of Sociology*, *Department of Sociology*, PHD, Univ of Massachusetts-Amherst; MA, Univ of Massachusetts-Amherst; BA, Warren Wilson College

Danica Lee Schieber, PHD (dschieber@shsu.edu), *Associate Professor of Business Administration*, *Department of Business Admin & Entrep*, PHD, Iowa State University; MA, Minnesota State Univ-Mankato; BA, Austin Peay State University

George Herbert Scott, PHD (ghs003@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Ponce Health Sciences Univ; MS, Ponce Health Sciences Univ; BA, Liberty University

Nazanin Sedaghatkish, PHD (nazanins@shsu.edu), *Assistant Professor of Economics and International Business*, *Department of Economics & Intl Business*, PHD, Virginia Polytechnic&State U; PHD, Virginia Polytechnic&State U; MSC, Sharif Univ of Technology; BS, Shahid Beheshti University

Abdelilah Salim Sehlaoui, EDD (asehlaoui@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, EDD, Indiana University of Pennsyl; MA, Indiana University of Pennsyl; BA, Mohamed Ben Abdellah Univ

Ki Won Seo, PHD (kws014@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Penn State Un-Univ Park; MA, Penn State Un-Univ Park; MAC, Korea University; BA, Korea University; BA, Korea University

Narasimha Karpoor Shashidhar, PHD (nks001@shsu.edu), *Professor of Computer Science*, *Department of Computer Science*, PHD, Univ of Connecticut; MS, Univ of Connecticut; BE, University of Madras

April A Shemak, PHD (aas004@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Maryland-College Park; MA, Univ of Maryland-College Park; BA, Univ of Wisconsin-Madison; BA, Univ of Wisconsin-Madison

Ronald E Shields, PHD (rshield@shsu.edu), *Professor of Theatre*, *Department of Theatre & Musical Theatre*, PHD, LSU & A&M College; MA, Bob Jones University; BA, Bob Jones University

Katie Jean Shinkle, PHD (kjs078@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Univ of Denver; MFA, Univ of Alabama-Tuscaloosa; BA, Grand Valley State University

Tony R. Shipp, MFA (art_trs@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Florida; BA, Montana State Univ-Billings

Gabriela Judith Silvestre, PHD (gjs020@shsu.edu), *Assistant Professor of Education*, *Department of Educational Leadership*, PHD, University of Pittsburgh; MED, University of Pittsburgh; CERN, Universidad Nacional Del Lit

Jessica Annie Simorte, MFA (jxs117@shsu.edu), *Associate Professor of Art*, *Department of Art*, MFA, Univ of Cincinnati; BA, University of Saint Mary

Vinoth Kumar Sittaramane, PHD (vks007@shsu.edu), *Professor of Biological Sciences*, *Department of Molecular & Cellular Biology*, PHD, Univ of Missouri-Columbia; DVM, Pondicherry University; MS, Indian Veterinary Research Institute

Shyam Sivankutty Nair, PHD (shyam.nair@shsu.edu), *Associate Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas Tech University; MSC, Kerala Agricultural University; BSC, Kerala Agricultural University

Susana Troncoso Skidmore, PHD (skidmore@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Texas A&M University; MED, Texas A&M University; BA, Texas A&M University

Britni Nicole Skillman, PHD (bns017@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Sam Houston State University; BS, Sam Houston State University

John R Slate, PHD (jrs051@shsu.edu), *Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Univ of Tennessee-Knoxville; MA, Univ of Tennessee-Knoxville; BA, Eastern Illinois University

Andrea Marie Smith, PHD (axs226@shsu.edu), *Associate Professor of Nursing*, *School of Nursing*, PHD, Univ of Texas-Arlington; MSN, Baylor University; BSN, Univ of Texas Medical Branch; BA, Southern Illinois U-Carbondale

Ashly Lynn Bender Smith, PHD (als121@shsu.edu), *Associate Professor Business Administration*, *Department of Business Admin & Entrep*, PHD, Univ of Louisville; MA, New Mexico State University; BA, Texas State Univ-San Marcos

Gary W. Smith, PHD (gsmith@shsu.edu), *Associate Professor of Computing Science*, *Department of Computer Science*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

Sahar Ahmed Soliman, PHD (sxs187@shsu.edu), *Assistant Professor of Pharmacology*, *Department of Physiology & Pharmacology*, PHD, Univ of Georgia; BPHARM, Ain Shams University

Micheil Brian Spillane, PHD (mbs056@shsu.edu), *Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Baylor University; MSED, Baylor University; BS, Univ of Houston-Main

Jennifer Hatchett Stover, PHD (jlh159@shsu.edu), *Assistant Professor of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MA, Prairie View A&M University; MAT, Texas Woman's University; BS, Texas Woman's University

Wayman Jerome Stover, DMA (wjs016@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Boston University; MM, Depaul University; BM, Indiana University-Bloomington; BM, Indiana University-Bloomington; DIPL, Yale University

John B Strait, PHD (jbs008@shsu.edu), *Professor of Geography*, *Department of Environmental & Geosciences*, PHD, Univ of Georgia; MA, Georgia State University; BA, Wittenberg University

Jeffery W Strawser, PHD (aac_jws@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BBA, Texas A&M University

William R Strawser, PHD (wxs018@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Texas A&M University; MS, Texas A&M University; BA, Univ of Texas At Austin

Robert H Stretcher, PHD (fin_rhs@shsu.edu), *Professor of Finance*, *Department of Finance & Banking*, PHD, Univ of Tennessee-Knoxville; MBA, Univ of North Alabama; BA, Univ of Tennessee-Knoxville

Abbie Ruth Strunc, PHD (abbie.strunc@shsu.edu), *Professor of Education and Associate Dean, College of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MED, Texas A&M University; BA, Texas A&M University

Kyle J Stutts, PHD (kjs015@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Oklahoma State University; BS, Texas A&M University

James Bartlett Stykes, PHD (jbs048@shsu.edu), *Associate Professor and Acting Chair of Sociology*, *Department of Sociology*, PHD, Bowling Green State University; MA, Bowling Green State University; BS, Austin Peay State University

Min Jae Suh, PHD (mjs068@shsu.edu), *Associate Professor of Engineering Technology*, *Department of Engineering Technology*, PHD, Virginia Polytechnic&State U; MS, Stanford University; BENGR, Yeungnam University

Jeffrey M Sullivan, PHD (jms107@shsu.edu), *Associate Professor of Counselor Education*, *Department of Counselor Education*, PHD, Univ of North Texas; MS, Univ of North Texas; BA, Univ of Texas At Austin

Laura Louise Sullivan, JD (lls003@shsu.edu), *Professor of Business Administration*, *Department of Business Admin & Entrep*, JD, South Texas College of Law; MBA, Sam Houston State University; BBA, Univ of Houston-Main

Eric P Svensen, PHD (eps007@shsu.edu), *Assistant Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, San Diego City Coll

Mary B Swarthout, PHD (mbs001@shsu.edu), *Associate Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Ohio State University; MA, Miami University; BA, Berea College

Edward W. Swim, PHD (ews007@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas Tech University; MS, Colorado School of Mines; BS, Angelo State University

T

Yingying Tang, PHD (yxt045@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Auburn University; MS, North Carolina State Univ

Kandi A Tayebi, PHD (eng_kat@shsu.edu), *Professor of English*, *Department of English*, PHD, Univ of Denver; MA, Univ of Northern Colorado; BA, Univ of Northern Colorado

Kayoko Dan Temple, DMA (kayokodan@shsu.edu), *Assistant Professor of Music*, *School of Music*, DMA, Arizona State University; MM, Arizona State University; BM, Univ of Texas At Austin

Monte L. Thies, PHD (bio_mlt@shsu.edu), *Professor of Biology*, *Department of Biological Sciences*, PHD, Oklahoma State University; MS, Univ of Central Oklahoma; BS, Univ of Central Oklahoma

David E Thompson, PHD (det002@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Wisconsin-Madison; BA, Carleton College

Christopher Michael Toula, PHD (cmt077@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Georgia State University; MA, Penn State Un-Univ Park; BA, Buckinghamshire New University

Tarek Mohsen Trad, PHD (tmt033@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oklahoma State University; BS, Beirut Arab Univ

Manuel Triano-Lopez, PHD (mxt017@shsu.edu), *Associate Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Indiana University; MA, Indiana University; BA, Universidad de Sevilla

Timothy O Trujillo, PHD (txt031@shsu.edu), *Associate Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Univ of Denver; MS, New Mexico Inst/Mining/Tech; BS, New Mexico Inst/Mining/Tech

Markland Howard Tuttle, PHD (mht001@shsu.edu), *Professor of Economics*, *Department of Economics & Intl Business*, PHD, Univ of Tennessee-Knoxville; MBA, Sam Houston State University; BBA, Sam Houston State University

U

Stacy Gwenn Ulbig, PHD (sgu001@shsu.edu), *Professor of Political Science*, *Department of Political Science*, PHD, Rice University; MA, Rice University; BA, Univ of St Thomas

Francisco Usero Gonzalez, PHD (fug002@shsu.edu), *Assistant Professor of School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Univ of Houston-Main

Baburhan Uzum, PHD (uzum@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Michigan State University; MA, Middle East Technical Univ; BA, Middle East Technical Univ

V

Jorge G Varela, PHD (jgv002@shsu.edu), *Professor of Psychology and Chair, Psychology and Philosophy*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BA, Florida Int'L Univ

Kristina K Vargo, PHD (kkv003@shsu.edu), *Professor of Education and Chair, School of Teaching and Learning*, *Department of Teaching & Learning*, PHD, Southern Illinois U-Carbondale; MS, Southern Illinois U-Carbondale; BS, Univ of Wisconsin-Eau Claire

Cihan Varol, PHD (cxv007@shsu.edu), *Professor of Computing Science*, *Department of Computer Science*, PHD, Univ of Arkansas-Little Rock; MS, West Virginia University; BSC, Firat University

Michael Scott Vaughn, PHD (msv002@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, University of Central Missouri; BS, University of Central Missouri

Edna Viviana Velasquez, PHD (evv003@shsu.edu), *Assistant Professor of Spanish*, *Department of World Languages & Cultures*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main

Adrian Villalta-Cerdas, PHD (axv067@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of South Florida; MA, Univ of South Florida; BS, Univ of Costa Rica

W

Tamara A. Waggener, PHD (pol_taw@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Austin; BA, Cal Poly St-Pomona

Matthew Charles Wagner, PHD (mcw002@shsu.edu), *Professor of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Sam Houston State University; BS, Sam Houston State University

WenJiun Wang, PHD (wjwang@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, University of Pittsburgh; MA, National Taipei University; BA, National Taipei University; BBA, National Taipei University

Xiaobo Wang, PHD (xiaobo.belle.wang@shsu.edu), *Assistant Professor of English*, *Department of English*, PHD, Georgia State University; BA, Northwest Normal University

Janis A Warner, PHD (jwarner@shsu.edu), *Associate Professor of Management Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Florida-Atlantic U; MBA, Univ of Denver; BA, Saint Mary's

Holly Ann Kizer Weimar, EDD (hweimar@shsu.edu), *Professor and Chair of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Univ of Houston-Main; EDD, Univ of Houston-Main; MLS, Sam Houston State University; MLS, Sam Houston State University; BSED, Stephen F Austin University; BSED, Stephen F Austin University

William M Wells, PHD (wmw005@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Omaha; MA, Indiana University-Bloomington; BA, Ohio University

Lu-Chung Weng, PHD (dennis.weng@shsu.edu), *Associate Professor of Political Science*, *Department of Political Science*, PHD, Univ of Texas At Dallas; MA, Univ of Texas At Dallas; MA, Tamkang College; BBA, Tamkang College

Rebecca Ann Wentworth, PHD (raw034@shsu.edu), *Associate Professor of Education*, *Department of Teaching & Learning*, PHD, Colorado State University; MED, Oakland University; BSED, Central Michigan Univ

Courtney Ann West, PHD (west@shsu.edu), *Asst Dean of Osteopathic Medicine for Educational Development, Adjunct Faculty*, *Department of Primary Care & Clinical Medi*, PHD, Texas A&M University; MED, Sam Houston State University; BS, Sam Houston State University

Stephen Walter White, PHD (sww012@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Mississippi; MA, Univ of Mississippi; BA, Univ of Mississippi

Grant Joseph Wiedenfeld, PHD (grant.wiedenfeld@shsu.edu), *Associate Professor of Mass Communication*, *Department of Mass Communication*, PHD, Yale University; MPHIL, Yale University; MA, Yale University; MFA, Univ of Wisconsin-Milwaukee; BA, Univ of Colorado; BFA, Univ of Colorado

Darren Lee Williams, PHD (williams@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, Oregon State University; BS, Univ of Texas At Austin

Justin K. Williams, PHD (bio_jkw@shsu.edu), *Professor of Biology and Assistant Dean, Honors College*, *Department of Biological Sciences*, PHD, Univ of Texas At Austin; BA, Univ of Texas At Austin

Mary Lola Williams, EDD (mlw049@shsu.edu), *Associate Professor of Kinesiology*, *Department of Kinesiology*, EDD, Texas A&M-Corpus Christi; MA, Texas A&M-Corpus Christi; BA, Coe College; BA, Coe College; BA, Coe College

Kamphol Wipawayangkool, PHD (kxw012@shsu.edu), *Professor of Management Information Systems*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Texas-Arlington; MS, Univ of Houston-Clear Lake; BS, Prince of Songkla University

Lawrence Arthur Wolfskill, PHD (wolfskill@shsu.edu), *Professor of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MBA, Texas A&M University; BS, Texas A&M University

Mary Elizabeth Wood, PHD (mew095@shsu.edu), *Assistant Professor of Psychology*, *Department of Psychology & Philosophy*, PHD, Univ of Alabama-Tuscaloosa; MA, Univ of Alabama-Tuscaloosa; BS, Kennesaw State University

Dennis C Wooten, PHD (dcw032@shsu.edu), *Assistant Professor of Pathology*, *Department of Clinical Anatomy*, PHD, Purdue University; MD, Univ of Texas HSC-Houston; BS, Clark Atlanta University

Jeffrey R Wozniak, PHD (jrw034@shsu.edu), *Associate Professor of Biology*, *Department of Biological Sciences*, PHD, Florida Int'L Univ; BS, Allegheny College

Y

Liu Yang, PHD (willowyang@shsu.edu), *Assistant Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Missouri-St Louis; MBA, Queen Mary Univ of London; BENGR, Xi'an Jiaotong University

Shengjie Yao, MA (sxy027@shsu.edu), *Assistant Professor of Mass Communication*, *Department of Mass Communication*, MA, Syracuse University; MS, Syracuse University; BA, Fu Jen Catholic Univ

Faruk Yildiz, DIT (fxy001@shsu.edu), *Professor and Chair of Engineering Technology*, *Department of Engineering Technology*, DIT, Univ of Northern Iowa; MS, Cuny City Coll; BS, MKH Dulati Taraz State Univ

Chase Jonathan Young, PHD (cxy010@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of North Texas; MS, Walden University; BA, Metropolitan St Univ of Denver

Chi Chung Yu, PHD (jornyu@shsu.edu), *Professor of Forensic Science*, *Department of Forensic Science*, PHD, Carleton University; MS, Central Police University; BS, Central Police University

Z

Samar M Zahrawi, PHD (sxz015@shsu.edu), *Associate Professor of Arabic*, *Department of World Languages & Cultures*, PHD, University of Leeds; BA, Al-Ba'ath University

Christopher M Zall, PHD (cxz027@shsu.edu), *Associate Professor of Chemistry*, *Department of Chemistry*, PHD, Univ of Minnesota-Twin Cities; MS, Univ of Minnesota-Twin Cities; BA, Carleton College

Ryan K Zapalac, PHD (rkz001@shsu.edu), *Professor of Kinesiology and Interim Dean, COHS*, *Department of Kinesiology*, PHD, Univ of Houston-Main; MED, Univ of Houston-Main; BS, Univ of Houston-Main

Pamela J Zelbst, PHD (mgt_pjz@shsu.edu), *Distinguished Professor of Management*, *Department of Mgmt, Mktg, & Info Systems*, PHD, Univ of Texas-Arlington; MBA, Sam Houston State University; BBA, Sam Houston State University

Shuangyue Zhang, PHD (sxz002@shsu.edu), *Professor of Communication Studies*, *Department of Communication Studies*, PHD, Ohio State University; MA, Kent State University; MA, Shandong University; BA, Shandong Normal University

Yan Zhang, PHD (icc_yxz@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Michigan State University; MS, Michigan State University; MS, Michigan State University; BS, Wuhan University

Jihong Zhao, PHD (jxz006@shsu.edu), *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Shanghai Inst of Higher Edu

Yuan Zhao, PHD (yxz028@shsu.edu), *Associate Professor of Microbiology and Immunology; Acting Chair, Molecular/Cell*, *Department of Molecular & Cellular Biology*, PHD, Univ of Louisville; MS, Univ of Louisville; BS, East China Normal Un

Bing Zhou, PHD (bxz003@shsu.edu), *Professor and Chair of Computer Science*, *Department of Computer Science*, PHD, University of Regina; MS, University of Regina; BS, Shandong Univ of Technology

Linda Reichwein Zientek, PHD (lrz002@shsu.edu), *Professor of Mathematics*, *Department of Mathematics & Statistics*, PHD, Texas A&M University; MS, Sam Houston State University; BS, Sam Houston State University

Interim Faculty

- #
- A (p. 1909)
- B (p. 1910)
- C (p. 1912)
- D (p. 1914)
- E
- F (p. 1915)
- G (p. 1916)
- H (p. 1917)
- I (p. 1918)
- J (p. 1918)
- K (p. 1919)
- L (p. 1920)
- M (p. 1921)
- N (p. 1923)
- O (p. 1924)
- P (p. 1924)
- Q
- R (p. 1925)
- S (p. 1926)
- T (p. 1928)
- U
- V (p. 1929)

- W (p. 1929)
- X (p. 1937)
- Y (p. 1930)
- Z (p. 1931)

A

Heather Ann Alaniz, PHD (haa034@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Texas Southern University; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

Adannaa Oparanozie Alexander, MPH (aoalexander@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, MPH, Emory University; AB, Washington University

William Lee Angrove, EDD (wla002@shsu.edu), *Assoc VP For Distance Learning, Adjunct Faculty*, *Department of Mass Communication*, EDD, University of New England; MPA, American Public University; BS, Western Michigan University

Dusanka Armstrong, MA (dxa015@shsu.edu), *Adjunct*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

B

Jamie Heintz Benson, EDD (jlh015@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BBA, Sam Houston State University

Katelyn Jane Blankenburg, MMT (kblankenburg@shsu.edu), *Clinical Assistant Professor of Music*, *School of Music*, MMT, Loyola Univ-New Orleans; BM, Sam Houston State University

Sean James Blinn, MA (sjb094@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, MA, Penn State University; MS, Univ of Scranton; BA, The King's College; BA, The King's College; DCJ, California Un of Pa

Rasika Nitin Borse, MFA (rnb020@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BA, Univ of Calgary

Craig S Boudreaux, DO (c.boudreaux@shsu.edu), *Assistant Professor of Family Medicine; Assistant Dean, COM*, *Department of Primary Care & Clinical Medi*, DO, Univ of North TX Hlth Sci Cntr; BBA, Univ of Texas At Austin

Mary Magdalene Breaux, PHD (mmp019@shsu.edu), *Professor of Practice in Victim Studies*, *Department of Victim Studies*, PHD, Prairie View A&M University; MA, Webster University; BS, Sam Houston State University

Casey Camille Graham Brown, PHD (ccb068@shsu.edu), *Adjunct Faculty, Associate Dean COE*, *Department of Educational Leadership*, PHD, Univ of Oklahoma-Norman; MED, Univ of Oklahoma-Norman; BS, Southeastern Oklahoma St Univ

Juanita M Brown, DO (jmb228@shsu.edu), *Associate Professor of Osteopathic Principles and Practice*, *Department of Osteopath Principles & Pract*, DO, Nova Southeastern University; BS, Florida Southern College

Alisha N Bullion, MS (anb035@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Jennifer Ann Bunn, PHD (jab229@shsu.edu), *Professor of Kinesiology and Associate Dean of COHS*, *Department of Kinesiology*, PHD, Baylor University; MS, Univ of Kentucky; BS, Nicholls State University

Laura Keilers Burleson, PHD (hec_lpb@shsu.edu), *Assistant Professor of Interior Design*, *Department of Human Sciences*, PHD, Texas Tech University; MS, Oklahoma State University; BS, Oklahoma State University

Kirk A Burns, MS (lib_kab@shsu.edu), *Senior Lecturer of Computer Science*, *Department of Computer Science*, MS, Sam Houston State University; BS, Sam Houston State University

Tonya Renae Burton, DMA (trb069@shsu.edu), *Lecturer of Music*, *School of Music*, DMA, Univ of Maryland-College Park; MM, Rice University; BM, Cleveland Institute of Music

Christine Marie Butler, EDD (cmb013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MA, Northwestern St Un of Louisana; BA, Northwestern St Un of Louisana

C

Ouida M Collins, MD (omc007@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, MD, Meharry Medical College; MPH, Univ of Texas HSC-Houston; BS, Xavier University of Louisiana

Jay O Coons, PHD (stdjoc12@shsu.edu), *Assistant Professor of Practice of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University; MS, Sam Houston State University; BS, Sam Houston State University

Melissa Dawn Cummins, PHD (mdc071@shsu.edu), *Lecturer of Music*, *School of Music*, PHD, Univ of Kansas; MM, Univ of South Dakota; MMED, Southeast Missouri State Univ; BSED, Nw Missouri St Univ

Peter Andrew Curka, DO (pac027@shsu.edu), *Associate Professor of Osteopathic Manipulative Medicine*, *Department of Osteopath Principles & Pract*, DO, University of New England; BS, Boston College

D

Magdalena A Denham, EDD (mxm002@shsu.edu), *Professor of Practice of Security Studies*, *Department of Security Studies*, EDD, Sam Houston State University; MA, San Diego St Univ; BA, Univ of San Diego

Jill Sayes Dewey, PHD (jsd043@shsu.edu), *Assistant Professor of Practice in Biological Sciences*, *Department of Biological Sciences*, PHD, Texas A&M University; BS, LSU & A&M College

Clayton Reed Dodson, PHD (crd073@shsu.edu), *Assistant Professor of Practice for Education*, *Department of Teaching & Learning*, PHD, University of North Dakota; MED, University of North Dakota; BSED, Mayville State University

Zachary A Doleshal, PHD (zad007@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Univ of New Mexico

Rebecca Duncan-Ramirez, PHD (rlw003@shsu.edu), *Clinical Assistant Professor of Educational Leadership*, *Department of Educational Leadership*, PHD, Ferris State University; MED, Sam Houston State University; BBA, Sul Ross State University

Jaime Betancourt Duran, PHD (jbd023@shsu.edu), *Clinical Assistant Professor of Education*, *Department of Teaching & Learning*, PHD, Texas A&M University; MED, Univ of Texas-Pan American; BA, Univ of Texas-Pan American

F

Ashley Kay Fansher, PHD (afansher@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Sam Houston State University

Natalie Reid Foley, MS (nrf026@shsu.edu), *Dir of Development; Adjunct Faculty*, *Department of Kinesiology*, MS, West Virginia University; BS, West Virginia University

Richard Kirby Ford, EDD (rkf006@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, EDD, Texas A&M University; MS, Texas A&M-Kingsville; BS, Texas A&M University

Fred Allen Forgey, PHD (forgey@shsu.edu), *Associate Dean COBA*, *Department of Business Admin & Entrep*, PHD, Texas Tech University; MBA, Univ of North Texas; BBA, Univ of Texas-Arlington

Kristie L Franks, MS (stdkxr14@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Leif M French, PHD (lmf027@shsu.edu), *Adjunct Faculty, Sr. Associate Dean, CHSS*, *Department of World Languages & Cultures*, PHD, Universite Laval; MA, Universite Laval; BA, California St Un-Sacramento

Daphne K Fulton, DPH (dsf005@shsu.edu), *Clinical Associate Professor of Public Health*, *Department of Public Health*, DPH, Texas A&M University; MPH, Texas A&M University; BS, Sam Houston State University

G

Anne R Gaillard, PHD (bio_arg@shsu.edu), *Adjunct Faculty; Vice Provost*, *Department of Biological Sciences*, PHD, Emory University; BS, Purdue University

Megan Renee Garzaglass, PHD (mrg044@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Houston-Clear Lake; BS, California St Un-Sacramento

Martin Daniel Gaston, MED (mdg078@shsu.edu), *Lecturer of Mass Communication*, *Department of Mass Communication*, MED, Houston Christian University; BS, Texas Tech University

Jurg Gerber, PHD (icc_jxg@shsu.edu), *Professor Emeritus of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Washington State University; MA, Washington State University; BA, Eastern Washington University

Sefik T Gokaslan, MD (stg016@shsu.edu), *Professor of Practice in Pathology*, *Department of Clinical Anatomy*, MD, Univ of Istanbul

Danielle Marie Goodspeed, PHD (dmg048@shsu.edu), *Visiting Assistant Professor of Biological Sciences*, *Department of Biological Sciences*, PHD, Rice University; MS, Rice University; BS, Roger Williams University; BS, Roger Williams University

Christopher D Greenleaf, PHD (cdg053@shsu.edu), *Clinical Assistant Professor of Kinesiology*, *Department of Kinesiology*, PHD, Rocky Mountain Univ Health Pro; MS, Middle Tennessee State Univ; BS, Charleston Southern University

Janet Lynn Gregory, DO (jlg160@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of N. Texas Hlth Sci Cnt; BA, Univ of Louisiana-Monroe

Pooja Gupta, EDD (pxg055@shsu.edu), *Clinical Assistant Professor of Special Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MS, Univ of Houston-Clear Lake; BED, Women's University; BC, University of Bombay

H

Tim T Harkrider, EDD (tth013@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Univ of Texas-Arlington; BS, Stephen F Austin University

Robert G Harmon, MSN (rgh012@shsu.edu), *Clinical Assistant Professor of Nursing*, *School of Nursing*, MSN, Univ of Texas HSC-Houston; BSN, Austin Peay State University

Susan Renee Harte, EDD (susanharte@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, East Texas A&M; MED, Lamar University; MA, Univ of Nebraska-Omaha; BSED, Peru State College

Natalie D Hegwood, PHD (eco_ndh@shsu.edu), *Adjunct Faculty and Assistant Dean, College of Business Administration*, *Department of Economics & Intl Business*, PHD, Univ of Houston-Main; MA, Univ of Houston-Main; BBA, Univ of Texas At Austin; BBA, Univ of Texas At Austin

Janene Withers Hemmen, EDD (stdjwh22@shsu.edu), *Clinical Associate Professor of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Iowa State University

Michael Henderson, MFA (mhenderson@shsu.edu), *Professor of Art and Associate Dean, CAM; Adjunct Faculty*, *Department of Art*, MFA, Univ of North Texas; BFA, Univ of North Texas

Nicole Renee Hendricks, PHD (nrh031@shsu.edu), *Visiting Assistant Professor of Mass Communication*, *Department of Mass Communication*, PHD, Univ of Southern Mississippi; MA, Ball State University; BA, Quincy College

Kenneth E Hendrickson, PHD (his_keh@shsu.edu), *Dean of Graduate Studies, Professor of History*, *Department of History*, PHD, University of Iowa; MA, Texas A&M University; BA, Texas A&M University

Ernesto Molinar Hernandez, PHD (emh060@shsu.edu), *Lecturer of Food Science & Nutrition*, *Department of Human Sciences*, PHD, Univ of Massachusetts-Amherst; MS, Oregon State University; BS, University of Guanajuato

Lonna Ann Marie Holland, MS (lah045@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Aaron David Hyams, PHD (adh061@shsu.edu), *Lecturer of History*, *Department of History*, PHD, Marquette University; MA, Univ of Montana-Missoula; BA, Marquette University

I

Jacqueline M Ingram, EDD (jmi002@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Texas A&M University; BS, Texas A&M University

J

Dustin L Jones, PHD (dljones@shsu.edu), *Adjunct Faculty; Associate Dean COSET and Professor of Mathematics Education*, *Department of Mathematics & Statistics*, PHD, Univ of Missouri-Columbia; MS, Texas A&M University; BS, Southwest Baptist University

K

Allen W. Kaminski, MS (awk002@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, MS, Sam Houston State University; BS, Sam Houston State University

Nichole J Karpel, EDD (njk017@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, George Washington University; MED, Penn State Un-Univ Park; BA, East Connecticut State Univ

Max Katz Crook, PHD (mxk095@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Nottingham

L

Travis Dale Lake, MFA (tlake@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, Univ of Utah

James Victor Landrum, PHD (jvl016@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Univ of Texas At Austin; MS, Univ of Southern Mississippi; BS, Mississippi State University

Rudy Leal McCormack, PHD (rudymc@shsu.edu), *Lecturer of Political Science*, *Department of Political Science*, PHD, Colorado State University; MA, Florida Int'L Univ; BA, Florida Int'L Univ; BA, Florida Int'L Univ

Townes Randolph Leigh, DO (trl027@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, DO, West Virginia School Osteo Med; BS, Univ of Tennessee-Martin

Olena Viacheslavivna Leipnik, PHD (oxl001@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Kharkiv VN Karazin Nat'l Univ; MA, Luhansk T. S. Pedagogical Univ; MA, Kyiv Taras Shevchenko Nat'l Un; BA, Kyiv Taras Shevchenko Nat'l Un

Li-Jen Yu Lester, EDD (lys001@shsu.edu), *Adjunct Faculty; Professor and Associate Dean COSET*, *Department of Computer Science*, EDD, Sam Houston State University; MA, Sam Houston State University; BS, Tahan Institute of Technology

Mia Chandra Long Anderson, PHD (mcl055@shsu.edu), *Professor of Mass Communication; Interim Dean, CAM*, *Department of Mass Communication*, PHD, Univ of Alabama-Tuscaloosa; MS, Univ of Tennessee-Knoxville; BA, Univ of Georgia

Phillip Mitchell Lyons, PHD (icc_pml@shsu.edu), *Professor of Security Studies; Dean, College of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Nebraska-Lincoln; JD, Univ of Nebraska-Lincoln; MA, Univ of Nebraska-Lincoln; BS, Univ of Houston-Clear Lake

M

Darla Deann McBryde, MM (dxm121@shsu.edu), *Visiting Assistant Professor of Music*, *School of Music*, MM, Stephen F Austin University; BMED, Baylor University

Robert Wayne Mcqueen, MS (rwm021@shsu.edu), *Assistant Professor of Practice of Wildlife Management*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Eastern Kentucky University

Benjamin Mitchell-Yellin, PHD (bxm040@shsu.edu), *Adjunct Faculty*, *Department of Psychology & Philosophy*, PHD, Univ of Calif-Riverside; MA, Boston College; BA, Univ of Michigan

Staci Elizabeth Mizell, EDD (sem108@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Univ of Houston-Clear Lake; MBA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

David Joseph Moeller, MD (djm087@shsu.edu), *Assistant Professor of Practice in Radiology*, *Department of Clinical Anatomy*, MD, Univ of Texas Medical Branch; MS, Saint Mary's College; BS, St Edwards University

Michael Copeland Moore, DVM (mcm014@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, DVM, Texas A&M University; BS, Texas A&M University; BS, Univ of Texas Medical Branch

Stephen Lee Morrison, PHD (sxm130@shsu.edu), *Lecturer of Criminal Justice*, *Department of Criminal Justice & Criminology*, PHD, Univ of Southern Mississippi; MA, Univ of Houston-Clear Lake; BS, Univ of Houston-Clear Lake

N

Karen Lee Nelson, PHD (kln005@shsu.edu), *Assistant Professor of Clinical Psychology*, *Department of Primary Care & Clinical Medi*, PHD, Univ of Houston-Main; MED, Univ of Houston-Main; BA, Southwestern University

Ray Gene Newman, PHD (rgn006@shsu.edu), *Lecturer of Public Health*, *Department of Public Health*, PHD, New York University; MPHIL, New York University; MBA, California St Un-Long Beach; BS, East Central University

Kristin Leigh Nicholson, PHD (kln017@shsu.edu), *Assistant Professor of Practice of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Rebecca Maria Novotny, EDD (stdrmn11@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, EDD, Sam Houston State University; MLS, Sam Houston State University; BA, Marymount College

O

Caitlin O'Connell, PHD (cmo042@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Univ of Pittsburg; BS, Univ of Rochester

Ronald B O'Neal, PHD (boneal@shsu.edu), *Assistant Professor of Practice in Mass Communication*, *Department of Mass Communication*, PHD, Our Lady of Lake University; MBA, University of Phoenix; BA, Howard University

Tyler Brandon Orcutt, BFA (tbo006@shsu.edu), *Lecturer of Dance*, *Department of Dance*, BFA, Univ of South Florida

P

Jill Saundra Pagels, EDD (jsp018@shsu.edu), *Clinical Assistant Professor of Teaching and Learning*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MED, Sam Houston State University; BA, Univ of Arizona

Michelle Renae Parker, EDD (stdmrh14@shsu.edu), *Assistant Professor of Practice of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Main; MED, Sam Houston State University; BS, Sam Houston State University

Christopher Francis Patane, PHD (cfp009@shsu.edu), *Senior Lecturer of Political Science*, *Department of Political Science*, PHD, Univ of Missouri-Columbia; MA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia; BA, Univ of Missouri-Columbia

Benjamin Scott Petty, MED (stdbsp11@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, MED, Sam Houston State University; BS, Florida College

Prasopsuk Yabsantiya Pinto, EDD (pyp001@shsu.edu), *Clinical Associate Professor of Education*, *Department of Teaching & Learning*, EDD, Sam Houston State University; MS, Texas A&M-Kingsville; BED, Chulalongkorn University

Erin Nicole Pitts, MA (enp008@shsu.edu), *Clinical Assistant Professor of Counselor Education*, *Department of Counselor Education*, MA, Sam Houston State University; BS, Sam Houston State University

Megan Becker Powell, MD (stdmdb26@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Univ. of Texas-Med-Galveston; BS, Sam Houston State University

Debra Patricia Price, PHD (edu_dpp@shsu.edu), *Professor of Education*, *Department of Teaching & Learning*, PHD, Univ of Texas At Austin; MED, LSU & A&M College; BS, Univ of Colorado

R

Jonathan M Read, MFA (jmr138@shsu.edu), *Lecturer of of Mass Communication*, *Department of Mass Communication*, MFA, Sam Houston State University; BA, Univ of Houston-Main

Jacob Daniel Regan, MFA (jacobregan@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, East Carolina Univ

Shani Nicole Robinson, PHD (snr001@shsu.edu), *Senior Associate Dean, COBA; Adjunct Faculty*, *Department of Accounting*, PHD, Univ of North Texas; MBA, Sam Houston State University; BBA, Sam Houston State University

S

Mark Christopher Saber, PHD (marksaber@shsu.edu), *Lecturer of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Texas At Dallas; MS, Univ of Texas At Dallas; MA, Univ of Texas-Arlington; BA, Univ of Texas-Arlington

Brent W Sanderlin, DO (b.sanderlin@shsu.edu), *Associate Professor of Family Medicine; Chair, Primary Care & Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Univ of North TX Hlth Sci Cntr; BS, Texas State Univ-San Marcos

Elizabeth Harris Sargent, DO (ehs008@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, William Carey University; BA, Univ of Mississippi

Gregg Stephen Silberg, DO (gss023@shsu.edu), *Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Kansas City Univ of Med&BioSci; MBA, Univ of Tennessee-Knoxville; BS, Drake University

Beverly Ann Smith-Edwards, PHD (bas076@shsu.edu), *Lecturer of Library Science and Technology*, *Department of Library Sci & Technology*, PHD, Univ of Oklahoma-Norman; MLIS, Univ of Oklahoma-Norman; BSED, Mayville State University

Anne Bennett Cook Smithson, PHD (abs055@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, George Mason University; JD, Northern Kentucky; MA, Georgetown University; BA, Univ of Kentucky

James D Sugg, PHD (jds233@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Texas A&M University; BS, Texas A&M University

Mst Rasheda Sultana, PHD (mxs218@shsu.edu), *Clinical Assistant Professor of Public Health*, *Department of Public Health*, PHD, Grad Sch & Univ Center; MPHIL, Grad Sch & Univ Center; MSC, University of Dhaka; BSC, University of Dhaka

T

Peggy Hejtmancik Taylor, MD (pht005@shsu.edu), *Assistant Professor of Obstetrics and Gynecology*, *Department of Primary Care & Clinical Medi*, MD, Univ of Texas HSC-Houston; MS, Sam Houston State University; BA, Texas A&M University

Veronica Diana Tristan, EDD (vdt001@shsu.edu), *Lecturer of Education*, *Department of Teaching & Learning*, EDD, Univ of Houston-Downtown; MED, Sam Houston State University; BA, Univ of Houston-Downtown

Lana Francine Trotter, PHD (lfc013@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MS, Univ of Texas-San Antonio; BA, Univ of North Texas

Keila E Tyner, PHD (kxt033@shsu.edu), *Associate Professor of Practice in Fashion Merchandising*, *Department of Human Sciences*, PHD, Iowa State University; MS, Colorado State University; BS, Texas Christian University

V

Jill Sharp Vaughan, BBA (jls227@shsu.edu), *Assistant Professor of Practice and Smith-Hutson Endowed Chair of Banking*, *Department of Finance & Banking*, BBA, Sam Houston State University

Stacey Lynn Victor, EDD (sedmonson@shsu.edu), *Professor of Education and Dean, College of Education*, *Department of Educational Leadership*, EDD, East Texas A&M; MED, East Texas A&M; BA, Texas A&M University

Maureen Victoria, PHD (mxv100@shsu.edu), *Assistant Professor of Practice in Agricultural Sciences*, *Department of Agricultural Sciences*, PHD, Texas A&M University; MS, Univ of Missouri-Columbia; BS, Texas State Univ-San Marcos

W

Kimberly M Waaso, DO (kmw135@shsu.edu), *Assistant Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, DO, Kansas City Univ of Med&BioSci; BS, Michigan State University

Candace Lynn Walkley, MD (clw117@shsu.edu), *Assistant Professor of Internal Medicine*, *Department of Primary Care & Clinical Medi*, MD, Univ of Texas SW Medical Cente; BS, Univ of Texas-Arlington

Terrence R Waugh, PHD (trw006@shsu.edu), *Lecturer of Engineering Technology*, *Department of Engineering Technology*, PHD, Univ of Nebraska-Lincoln; MS, Univ of Nebraska-Omaha; BA, Creighton University

Kelly Lynn Matheney Weikle, PHD (klw121@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, Ohio University; MA, Ohio University; MMC, Univ of S Carolina-Columbia; BSJ, West Virginia University

Edith Carol Wells, MFA (ediewells@shsu.edu), *Assistant Professor of Practice in Art*, *Department of Art*, MFA, Goddard College; MA, Southwest Baptist Theo Seminar; BS, Auburn University

Danielle Nicole White, PHD (stddnw13@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, PHD, Sam Houston State University; MED, Lamar University; BS, Univ of Houston-Downtown

Natasha Shah Williams, MD (nxs059@shsu.edu), *Assistant Professor of Pediatrics*, *Department of Primary Care & Clinical Medi*, MD, Texas A&M University; BS, Univ of Texas At Austin

Susannah Leigh Williamson, PHD (sxw058@shsu.edu), *Lecturer of Kinesiology*, *Department of Kinesiology*, PHD, Texas A&M University; MA, Teachers College Columbia Univ; BA, Brown University; BA, Brown University

Marsha Clark Wilson, MBA (mcw021@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MBA, Univ of Houston-Main; BS, Univ of Texas At Austin

Megan Leigh Woolford, MD (mlw090@shsu.edu), *Assistant Professor of Family Medicine*, *Department of Primary Care & Clinical Medi*, MD, Baylor College of Medicine; BS, Texas A&M University

Warren Brandon Wright, MED (wbw007@shsu.edu), *Lecturer of Education*, *Department of Counselor Education*, MED, Georgia Southern University; BS, Georgia Southern University

Brooklynn Joy Wynveen, PHD (bjw028@shsu.edu), *Senior Lecturer of Sociology*, *Department of Sociology*, PHD, Clemson University; MNRD, Texas A&M University; BA, Univ of Maryland-Univ Coll

X

Yue Xie, PHD (yxx008@shsu.edu), *Associate Professor of Practice in Public Health*, *Department of Public Health*, PHD, Univ of Tx Health Science Cntr; ME, Massachusetts Inst of Tech; MHA, Tulane University; BBA, Univ of Miami

Y

Natasha Young Risher, MED (nxy007@shsu.edu), *Lecturer of Counselor Education*, *Department of Counselor Education*, MED, Texas Southern University; BA, Univ of Houston-Main

Z

Paul W Zarutskie, MD (pwz001@shsu.edu), *Associate Professor of Clinical Medicine*, *Department of Primary Care & Clinical Medi*, MD, Drexel University; BS, Duke University; BS, Duke University

Kelly Kristine Zinn, PHD (kkzinn@shsu.edu), *Clinical Associate Professor of Nursing*, *School of Nursing*, PHD, Loyola Univ-Chicago; MS, Univ of Nebraska Med Center; BSN, Clarkson College

Glossary

AACSB
Association to Advance Collegiate Schools of Business.

Academic Advisor
A professional who helps students with academic and career planning.

Academic Calendar
A calendar indicating key dates and deadlines for important academic requirements and/or activities including, but not limited to, the start and end dates of classes, holidays, exam days, and registration dates.

Academic Year
The time frame from the start of a fall semester until the start of the subsequent fall semester. It typically is divided into the fall, spring, and summer semesters.

Accreditation
An endorsement from an oversight organization indicating that the educational institution and/or academic degree program meets or exceeds specific measures of quality.

Advanced Courses
Courses with content designed to be taken during the junior or senior year. At SHSU, these courses are numbered in the 300s or 400s.

Advanced Credit
Credit earned for advanced courses at universities. Courses transferred from a community college do not earn advanced credit.

Audit, Course
Enrollment in a course as a non-credit seeking student, with no record on the transcript.

Bachelor's Degree

An academic credential from a university earned after completing a specific program of study. Typically, the program of study will include a general education component, a major, degree related requirements, and electives and/or a minor. The minimum number of credits is 120 hours.

CLEP
College **L**evel **E**xamination **P**rogram. A series of tests available to students to demonstrate proficiency in various college subjects. CLEP exams may be used to earn college credits for select courses.

Classification
Indication of a student's progress toward degree completion based upon the number of hours completed. The categories of undergraduate classification are Freshman, Sophomore, Junior, and Senior.

Class Day
Any day in the academic semester when university classes are scheduled. The number of class days is used for drop dates, resignation dates, and tuition refund schedules. When determining the number of class days (e.g., 12th class day), start counting with the first day of on-campus daytime courses and increase by one each day the university has scheduled classes.

Closed Classes
Classes that have reached the designated maximum enrollment capacity or are not available for on-line registration.

Commencement
An event during which degrees are awarded to graduating students. SHSU holds commencement ceremonies every May, August, and December.

Concurrent Enrollment
Enrollment in courses at two institutions during the same semester.

Core Curriculum
The curriculum in liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of an institution of higher education are required to complete as part of an undergraduate academic degree program. Also referred to as the general education component.

Course Equivalency Guide
A table listing courses from a specific institution and the corresponding courses at SHSU that are considered to have the same content. The course equivalency guide is used to identify courses that may transfer to SHSU.

Course Numbers

A numeric code signifying the anticipated academic level and the credit hour value of a course. At SHSU, course numbers consist of three digits. The first digit in the sequence indicates the course level and suggests the academic year in which the course is typically taken. Lower-level undergraduate courses have a “1” or “2” in the first digit; upper-level undergraduate courses have a “3” or “4” in the first digit; and graduate courses have a “5” or higher in the first digit.

Course Prefix
Abbreviation identifying the academic discipline of a course (e.g., ACCT signifies Accounting, CRIJ signifies Criminal Justice, and BIOL signifies Biology).

Course Reference Number (CRN)
A unique six-digit number used to identify a specific course offering within a given term. The CRN is used to select courses when registering.

Credit by Examination
An award of academic credit and placement based on examination scores.

Credit Hour (also called Semester Credit Hour)
A unit of measure attached to academic courses, usually reflecting the number of lecture hours per week a course meets in a fall or spring semester.

Curriculum
A combination of courses that compose a particular area of study.

Dean
The highest ranking academic official in a college (e.g., College of Education).

Declaration of Major/Minor Form
The form submitted by an undergraduate student to officially declare a major and/or minor. The form is submitted to the departmental chair of the department housing the student’s declared major.

Degree
An academic credential awarded upon the completion of a specific area of study. Universities offer baccalaureate degrees at the undergraduate level and master’s and doctoral degrees at the graduate level.

Degree Plan
A specific list of academic requirements that must be completed to earn a degree.

Departmental Chair
An individual responsible for the administrative functions of an academic department. The functions include, but are not limited to, coordination of curriculum planning, faculty course assignments, and evaluation of faculty performance.

Developmental Courses
Courses designed to help student achieve the minimum standards set by the Texas Success Initiative (TSI). Developmental courses are listed with either a “031” or “032” course number and **do not** count toward the hours needed for graduation.

Doctoral Degree
A graduate degree that usually requires two or more years of study beyond the master's degree and progressively more credit hours, varying by discipline.

Double Degree
The concurrent pursuit of two specific majors, each with a different type of degree (e.g., BS with a major in mathematics and a BA with a major in English). The student must be awarded both degrees at the same graduation date.

Double Major
The concurrent pursuit of two specific majors with both resulting in the same type of degree (e.g., BS with majors in Biology and Chemistry). The student must be awarded both majors at the same graduation date.

Drop/Add
A term used to identify the act of deleting/adding courses from/to an established schedule.

Drop Date
The latest date that a student may drop a class without a letter grade being assigned. Dropping a class after this date results in a grade of “F” for the course.

Dual Credit
The receipt of high school and college credit for the same course for qualified high school students enrolled in college-level courses.

Dual Degree

A degree program allowing students to pursue two different degrees concurrently, with select courses satisfying the requirements of both degrees and shortening completion time for the combined programs. Dual degree programs must meet minimum credit hour requirements as specified by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

Elective
A degree plan requirement, not directed to a specific area of academic content, contributing to the credit hour requirements of a degree.

Faculty
Appropriately credentialed individuals responsible for the delivery of course content and academic research and service.

FAFSA (Free Application for Federal Student Aid)
A federal form required from all students seeking need-based financial aid. The FAFSA collects family income and other financial information and is completed and filed by the student or his/her family.

Fees
Non-tuition charges dedicated to cover the cost of specific academic and/or service functions of the university.

Final Exam
An exam, usually comprehensive, designed to measure a student's retention and understanding of the course material. Final exams are scheduled for the last week of the semester and do not necessarily correspond to the regular class meeting time.

Freshman
The classification of a student who has completed 0 to 29 semester credit hours.

Full-Time Undergraduate Student
Undergraduate students enrolled in twelve or more credit hours during a fall or spring semester or six or more credit hours during a summer session. Correspondence courses do not apply toward the credit hour count in determining status.

Grade Point Average (GPA)
Numeric average of academic performance on a 0-to-4 point scale. The GPA is the ratio of grade points earned to credit hours attempted.

Graduate Certificate
An academic, non-degree credential from a university awarded upon completion of a set of master's-level courses indicating mastery of a specialized field or subject area. Graduate certificates, requiring between 9 and 29 semester credit hours (SCH), may be offered as stand-alone credentials or embedded within a master's degree.

Grant
A type of financial assistance not requiring repayment.

International Baccalaureate
The International Baccalaureate (IB) Diploma Program is a comprehensive two-year pre-college curriculum that is offered in high schools across the globe that may lead to college credits.

Junior
The classification of a student who has completed 60 to 89 semester credit hours.

Major
A student's concentrated area of study. Most majors consist of a minimum of 30 credit hours within a specific area of study.

Master's Degree
A graduate degree that usually requires two or more years of study beyond the bachelor's degree. The minimum number of credits is 30 hours.

Minor
A student's secondary area of study. Most minors consist of a minimum of 18 credit hours within a specific area of study.

Overload
A course load in excess of 19 hours in a fall or spring semester of 7 hours in a summer session. Overloads must be approved by the student's academic Dean.

Part-Time Undergraduate Student
Undergraduate students enrolled in less than twelve credit hours during a fall or spring semester or less than six credit hours during a summer session. Correspondence courses do not apply toward the credit hour count in determining status.

Prerequisite
An academic requirement (e.g., completion of an earlier sequenced course) that must be satisfied prior to the enrollment in a specific course.

Probation

An academic standing placed upon undergraduate students who fall below a 2.0 SHSU or overall grade point average at the close of any semester or summer school during which one or more semester hours were attempted.

Q-Drop
A drop made after the last date for tuition refunds but before a drop would result in the grade of "F." Students will be allowed no more than five Q-drops during their academic career at Sam Houston State University.

Resignation
Withdrawing from all classes in which the student is enrolled at the university.

Second Degree
The pursuit of a degree at the same level of a degree previously awarded (e.g., baccalaureate).

Section, Course
A number used to distinguish between multiple offerings of the same course. On a student's schedule, the section is the number after the period following the course number (e.g., ENG164.02 indicates section 2 of ENG 164).

Semester
Period of time during which academic courses are offered. SHSU offers fall, spring and summer semesters.

Semester Credit Hour
See Credit Hour.

Senior
The classification of a student who has completed 90 or more semester credit hours.

Sophomore
The classification of a student who has completed 30 to 59 semester credit hours.

Suspension
An academic standing imposed on undergraduate students with a SHSU or overall GPA less than 2.0 for two or more successive semesters. Students on suspension are not allowed to enroll in classes without the permission of the appropriate academic Dean.

Syllabus
A document containing academic and administrative information about a course. The syllabus is provided by the instructor at the beginning of the semester and typically includes a lesson schedule, dates of exams, and quizzes, assigned books and readings, e-mail/phone number and the best time to reach the instructor, and an explanation of how the final grade will be determined.

Transcript, Official
A university approved document providing information about a student's academic performance, including but not limited to, semester by semester listing and grades of courses attempted, credits earned, academic standing, GPA, TSI status, and admission exams.

TSI (Texas Success Initiative)
A Texas law requiring all entering college students to be assessed for college readiness in mathematics, reading and writing unless the student qualifies for an exemption.

Tuition
A per credit hour charge per course. There is a different rate for Texas residents and non-Texas residents.

Undergraduate
A student pursuing a bachelor's degree.

Undergraduate Certificate
An academic, non-degree credential from a university awarded upon completion of a set of baccalaureate-level courses indicating mastery of a specialized field or subject area. Undergraduate certificates, requiring between 12 and 36 semester credit hours (SCH), may be offered as stand-alone credentials or embedded within a baccalaureate degree.

Withdrew Failing (WF)
A mark indicating a student was not performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.

Withdrew Passing (WP)
A mark indicating a student was performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.

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