

BS, MAJOR IN EDUCATION: 4-8 SCIENCE

Code	Title	Hours
Bachelor of Science, Major in Education: 4-8 Science		
Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)		
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) 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) ²		4
Degree Specific Requirements		
ENGL 2332 or ENGL 2333	Wrld Lit I: Before 17 Century ³ World Lit II: 17th C & After	3
MATH 1384	Intro Foundations of Math I ¹	3
Major Core		
BESL 3301	Second Language Acquisition ⁴	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integ Tech in 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
SPED 2301	Introduction to Exceptionality ⁵	3
MATH 1385	Intro Foundations of Math II	3
MATH 2384	Functions and Graphs	3
Field Experience I		
READ 3373	Content Area Rdg In Mid Grades	3
READ 3374	Voc & Word Stdy In Mid Grades	3
Field Experience II		
SPED 3301	Learn and Instruc Child W/Disa	3
TESL 3313	ESL Methodology I ⁶	3
YLR Semester I		
CIME 3376	Curriculum & Assmt For Mid Grd	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4391	Student Teaching in the Middle Grades	3
YLR Semester II/4+1 MED Pre-Internship Block ⁷		9-10
YLR Semester II		
CIME 4392	Student Teaching in the Middle Grades	
EDUC 4301	Teacher Education Capstone	
TESL 4314	ESL Methodology II (Evening)	
4+1 MED Pre-Internship		
CIED 5360	Adv Techniques & Mthds Instr	
CIED 5390	Adv Mths Classroom Mgt & Disc	
CIED 5393	Assessment Of Learning	
Elective (1 SCH) ⁷		
Major		

PHYS 1305 & PHYS 1105	Classical Physics & Thermodynamic and Class Phy & Thermodynamics Lab	4
PHYS 1403	Stars & Galaxies	4
CHEM 1305 & CHEM 1105 or CHEM 1406	Applying Chemistry to Society and Chemistry in Context Lab Inorganic & Envir Chemistry	4
GEOG 1401	Weather and Climate	4
GEOL 1403	Physical Geology	4
GEOL 1404	Historical Geology	4
Choose one of the following:		4
ASTR 3303	Life in the Universe	
ASTR 3383	Cosmic Catastrophes	
BIOL 1411	General Botany	
BIOL 1413	General Zoology	
BIOL 2401	Human Anatomy ⁸	
GEOL 3330	Oceanography	
GEOL 3326	Environmental Geology	

Total Hours**128-129**

- 1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.
- 2 Component Area III: BIOL 1408 and BIOL 1436 suggested; Component Area V: CAMX 2301 suggested; Component Area VIII: GEOG 1300 or BESL 2301 suggested; Component Area IX: ECON 1100 and COMS 2382 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 BESL 3301 prerequisite for TESL 3313.
- 5 SPED 2301 prerequisite for SPED 3301.
- 6 TESL 3313 prerequisite for TESL 4314.
- 7 Students admitted into the MED in Teaching and Learning as part of the 4+1 program may satisfy their YLR requirement with the MED Pre-Internship coursework and 1 additional free elective hours.
- 8 BIOL 2401 recommended.

Notes

Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Field Experience I, Field Experience II, YLR Semester I, and YLR 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, TESL, and READ 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 (<http://catalog.shsu.edu/archives/2021-2022/undergraduate/colleges-academic-departments/education/school-of-teaching-and-learning/special-education-minor/>).

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.

First Year

Fall	Hours	Spring	Hours
Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) ¹		4 Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) ¹	4
Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav) ¹		3 Component Area VIII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii) ¹	3
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) ¹		1 ENGL 1302 ²	3
ENGL 1301 ²		3 HIST 1302 ³	3
HIST 1301 ³		3 MATH 1385	3
MATH 1384 ⁴		3 POLS 2305 ⁵	3
	17		19

Second Year

Fall	Hours	Spring	Hours
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) ¹		3 CIME 3374 ⁷	3
CIME 2313		3 GEOL 1403	4
EDUC 1101		1 MATH 2384	3
ENGL 2332 ⁶		3 PHYS 1403	4
PHYS 1305 & PHYS 1105		4 SPED 2301 ⁷	3
POLS 2306 ⁵		3	
	17		17

Third Year

Fall	Hours	Spring	Hours
BESL 3301 ⁸		3 Choose one course from the list below ⁹	4
CHEM 1406 or 1305 <i>and</i> 1105		4 CIME 3327	3
GEOG 1401		4 GEOL 1404	4
READ 3373		3 SPED 3301	3
READ 3374		3 TESL 3313 ¹⁰	3
	17		17

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375		3 YLR Semester II/4+1 MED Pre-Internship Block ¹¹	9-10
CIME 3376		3 YLR Semester II	
CIME 3385		3 CIME 4392	
CIME 4335		3 EDUC 4301	
CIME 4391		3 TESL 4314	

	4+1 MED Pre-Internship	
	CIED 5360	
	CIED 5390	
	CIED 5393	
	Elective (1 SCH) ¹¹	
	15	9-10

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- ¹ Component Area III: BIOL 1408 and BIOL 1436 suggested; Component Area V: CAMX 2301 suggested; Component Area VIII: GEOG 1300 or BESL 2301 suggested; Component Area IX: ECON 1100 and COMS 2382 suggested.
- 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 II (Mathematics) and major.
- ⁵ Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- ⁶ Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
- ⁷ SPED 2301 prerequisite for SPED 3301.
- ⁸ BESL 3301 prerequisite for TESL 3313.
- ⁹ See, list of courses below. BIOL 2401 (<http://catalog.shsu.edu/archives/2021-2022/search/?P=BIOL%202401>) recommended.
- ¹⁰ TESL 3313 prerequisite for TESL 4314.
- ¹¹ Students admitted into the MED in Teaching and Learning as part of the 4+1 program may satisfy their YLR requirement with the MED Pre-Internship coursework and 1 additional free elective hours.

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Course List ⁹		
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The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or 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.