

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 (https://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) 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 or ENGL 2333	World Literature I: Before the 17th Century ³ World Literature II: From the 17th Century and After	3
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 (<https://catalog.shsu.edu/archives/2025-2026/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 III (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) ¹		4 Component Area III (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) ¹	4
Component Area V (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav) ²		3 Component Area VIII (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii) ⁷	3
Component Area IX (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) 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 (https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix) 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.

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- 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 (<https://catalog.shsu.edu/archives/2025-2026/search/?P=ENGL%202332>) or ENGL 2333 (<https://catalog.shsu.edu/archives/2025-2026/search/?P=ENGL%202333>) 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 (<https://catalog.shsu.edu/archives/2025-2026/search/?P=BIOL%202401>) is recommended.

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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.