

# BACHELOR OF SCIENCE, MAJOR IN EDUCATION: 4-8 MATHEMATICS/SCIENCE

Code	Title	Hours
<b>Bachelor of Science, Major in Education: 4-8 Mathematics/Science</b>		
<b>Core Curriculum (<a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/</a>)</b>		
Component Area I (Communication)		6
Component Area II (Mathematics) <sup>1</sup>		3
Component Area III (Life and Physical Science) <sup>3</sup>		8
Component Area IV (Language, Philosophy, and Culture) <sup>3</sup>		3
Component Area V (Creative Arts) <sup>4</sup>		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) <sup>5</sup>		3
Component Area IX (Component Area Option) <sup>6</sup>		4
<b>Degree Specific Requirements</b>		
ENGL 2332 or ENGL 2333	World Literature I: Before the 17th Century <sup>3</sup> World Literature II: From the 17th Century and After	3
MATH 1384	Introduction to Foundations of Mathematics I <sup>1</sup>	3
<b>Major: Foundation</b>		
BESL 3301	Second Language Acquisition <sup>7</sup>	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 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
GEOG 1401	Weather and Climate	4
MATH 1385	Introduction to Foundations of Mathematics II	3
MATH 2384	Functions and Graphs	3
MATH 3386	Fundamentals of Probability and Statistics	3
MATH 3383	Geometric Measurement/Transformation	3
MATH 3384	Foundations of Mathematics	3
MATH 3387	Problem Solving-Middle School Mathematics	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 <sup>8</sup>	3
<b>Major: Required</b>		
<b>Field Experience I</b>		
SPED 3301	Learning and Instruction for Children with Disabilities	3
TESL 3313	English Second Language Methodology I <sup>9</sup>	3
<b>Field Experience II</b>		
READ 3373	Content Area Reading in the Middle Grades	3
READ 3374	Vocabulary and Word Study in the Middle Grades	3
<b>Year-long Clinical Teaching Semester I</b>		
CIME 3376	Curriculum and Assessment For Middle Grades	3
CIME 4391 or CIEE 4391	Student Teaching in the Middle Grades Student Teaching Elementary School	3
CIME 4334	Teaching Math in Middle Grades	3

CIME 4335	Teaching Science in the Middle Grades	3
<b>Year-long Clinical Teaching Semester II</b>		
CIME 4392 or CIEE 4392	Student Teaching in the Middle Grades Student Teaching Elementary School	3
EDUC 4301	Teacher Education Capstone	3
TESL 4314	English Second Language Methodology II	3
<b>Minor: Not Required</b> <sup>10, 11</sup>		
<b>Total Hours</b>		<b>128</b>

- <sup>1</sup> MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
- <sup>2</sup> To satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), BIOL 1408 and BIOL 1436 are suggested.
- <sup>3</sup> ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
- <sup>4</sup> To satisfy the Core Curriculum requirement for Component Area V (Creative Arts), CAMX 2301 is suggested.
- <sup>5</sup> To satisfy the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences), GEOG 1300 OR BESL 2301 is suggested.
- <sup>6</sup> To satisfy the Core Curriculum requirement for Component Area IX (Component Area Option), ECON 1100 and COMS 2382 are suggested.
- <sup>7</sup> BESL 3301 is the prerequisite for TESL 3313.
- <sup>8</sup> SPED 2301 is the prerequisite for SPED 3301.
- <sup>9</sup> TESL 3313 is the prerequisite for TESL 4314.
- <sup>10</sup> 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.
- <sup>11</sup> 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.

**First Year**

Fall	Hours	Spring	Hours
Component Area I ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai</a> )		3 Component Area I ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai</a> )	3
Component Area III ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii</a> ) <sup>1</sup>		4 Component Area VI ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi</a> )	3

Component Area V ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> ) <sup>2</sup>	3	Component Area III ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii</a> ) <sup>1</sup>	4
Component Area VII ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii</a> )	3	Component Area VIII ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii</a> ) <sup>5</sup>	3
Component Area IX ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> ) <sup>3</sup>	1	MATH 1385	3
MATH 1384 <sup>4</sup>	3	POLS 2305	3

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**Second Year**

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Component Area IX ( <a href="https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">https://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> ) <sup>3</sup>		3 BESL 3301 <sup>7</sup>	3
CIME 2313		3 CIME 3374	3
EDUC 1101		1 MATH 3386	3
ENGL 2332 or 2333 <sup>6</sup>		3 PHYS 1403	4
MATH 2384		3 SPED 2301 <sup>8</sup>	3
PHYS 1305 & PHYS 1105		4	
POLS 2306		3	

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**Third Year**

Fall	Hours	Spring	Hours
CIME 3327		3 CIME 3385	3
CHEM 1406		4 GEOG 1401	4
MATH 3383		3 READ 3373	3
MATH 3384		3 READ 3374	3
SPED 3301		3 MATH 3387	3
TESL 3313 <sup>9</sup>		3	

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**Fourth Year**

Fall	Hours	Spring	Hours
CIME 3376		3 EDUC 4301	3
CIME 4334		3 CIME 4392 or CIEE 4392	3
CIME 4391 or CIEE 4391		3 TESL 4314	3
CIME 4335		3	

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<sup>7</sup> BESL 3301 is the prerequisite for TESL 3313.  
<sup>8</sup> SPED 2301 is the prerequisite for SPED 3301.

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CIME 3385 is required prior to enrollment in YCT Semester I.

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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 Mathematics/Science is designed to provide graduates with the following marketable skills:

- Prepared to teach Mathematics and 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