

# BS, MAJOR IN EDUCATION: 4-8 MATHEMATICS

Code	Title	Hours
<b>Bachelor of Science, Major in Education: 4-8 Mathematics</b>		
Core Curriculum ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/</a> )		
Component Area I (Communication)		6
Component Area II (Mathematics) <sup>1</sup>		3
Component Area III (Life and Physical Science) <sup>2</sup>		8
Component Area IV (Language, Philosophy, and Culture) <sup>3</sup>		3
Component Area V (Creative Arts) <sup>2</sup>		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) <sup>2</sup>		3
Component Area IX (Component Area Option) <sup>2</sup>		4
<b>Degree Specific Requirements</b>		
ENGL 2332 or ENGL 2333	Wrld Lit I: Before 17 Century <sup>3</sup> World Lit II: 17th C & After	3
MATH 1384	Intro Foundations of Math I <sup>1</sup>	3
<b>Major Core</b>		
BESL 3301	Second Language Acquisition <sup>4</sup>	3
CHEM 1305 & CHEM 1105 or CHEM 1406	Applying Chemistry to Society and Chemistry in Context Lab Inorganic & Envir Chemistry	4
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
MATH 1385	Intro Foundations of Math II	3
SPED 2301	Introduction to Exceptionality <sup>5</sup>	3
<b>Major</b>		
MATH 2384	Functions and Graphs	3
MATH 2385	Fundamentals of Calculus	3
MATH 3380	Historical Perspec of Math	3
MATH 3383	Geometric Meas./Transformation	3
MATH 3384	Foundations of Mathematics	3
MATH 3386	Fundmtls of Probability/Stats	3
MATH 3387	Problem Solving-Middle Sch Mth	3
<b>Field Experience I</b>		
READ 3373	Content Area Rdg In Mid Grades	3
READ 3374	Voc & Word Stdy In Mid Grades	3
<b>Field Experience II</b>		
SPED 3301	Learn and Instruc Child W/Disa	3
TESL 3313	ESL Methodology I <sup>6</sup>	3
CIME 3376	Curriculum & Assmt For Mid Grd	3
<b>YLR Semester I</b>		
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
<b>YLR Semester II /4+1 MED Pre-Internship Block: <sup>7</sup></b>		<b>9-14</b>

YLR Semester II	
EDUC 4301	Teacher Education Capstone
CIME 4392	Student Teaching in the Middle Grades
TESL 4314	ESL Methodology II (Evening )
4+1 Pre-Internship	
CIED 5360	Adv Techniques & Mthds Instr
CIED 5390	Adv Mths Classroom Mgt & Disc
CIED 5393	Assessment Of Learning
Elective (5 SCH) <sup>7</sup>	
<b>Total Hours</b>	<b>125-130</b>

- 1 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
- 2 Component III: Suggested BIOL 1408, BIOL 1436 CHEM 1305/CHEM 1105; Component V: Suggested CAMX 2301 Component VIII: Suggested BESL 2301 or GEOG 1300, Component IX: ECON 1100 and COMS 2382.
- 3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and 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 5 additional free elective hours.

### 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 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 YLR 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 (<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**

<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
Component Area III ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii</a> ) <sup>1</sup>		4 Component Area VIII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii</a> ) <sup>1</sup>	3
Component Area V ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> ) <sup>1</sup>		3 Component Area IX ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> ) <sup>1</sup>	1
ENGL 1301 <sup>2</sup>		3 ENGL 1302 <sup>2</sup>	3
HIST 1301 <sup>3</sup>		3 HIST 1302 <sup>3</sup>	3
MATH 1384 <sup>4</sup>		3 MATH 1385	3
		POLS 2305 <sup>5</sup>	3
	<b>16</b>		<b>16</b>

**Second Year**

<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
Component Area III ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii</a> ) <sup>1</sup>		4 CHEM 1406 or 1305 <i>and</i> 1105	4
CIME 2313		3 CIME 3374	3
COMS 2382 <sup>1</sup>		3 MATH 2385	3
EDUC 1101		1 MATH 3380	3
ENGL 2332 or 2333 <sup>6</sup>		3 SPED 2301 <sup>7</sup>	3
MATH 2384		3	
POLS 2306 <sup>5</sup>		3	
	<b>20</b>		<b>16</b>

**Third Year**

<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
BESL 3301 <sup>8</sup>		3 CIME 3327	3
CIME 3385		3 MATH 3386	3
MATH 3383		3 MATH 3387	3
MATH 3384		3 SPED 3301	3
READ 3373		3 TESL 3313 <sup>9</sup>	3
READ 3374		3	
	<b>18</b>		<b>15</b>

**Fourth Year**

<b>Fall</b>	<b>Hours</b>	<b>Spring</b>	<b>Hours</b>
CIME 3375		3 YLR Semester II/Pre-Internship Block <sup>10</sup>	9-14
CIME 3376		3 YLR Semester II	
CIME 4334		3 CIME 4392	
CIME 4335		3 EDUC 4301	
CIME 4391		3 TESL 4314	
		4+1 Pre-Internship	
		CIED 5360	
		CIED 5390	
		CIED 5393	
		Elective (5 SCH) <sup>10</sup>	
	<b>15</b>		<b>9-14</b>

**Total Hours: 125-130**

#### 4 BS, Major in Education: 4-8 Mathematics

- 1 Component III: Suggested BIOL 1408, BIOL 1436 CHEM 1305/CHEM 1105; Component V: Suggested CAMX 2301; Component VIII: Suggested BESL 2301 or GEOG 1300; Component IX: ECON 1100 (<http://catalog.shsu.edu/archives/2021-2022/search/?P=ECON%201100>) and COMS 2382
- 2 Satisfies Core Curriculum requirement for Component Area I (Communication).
- 3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- 4 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major.
- 5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- 6 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
- 7 SPED 2301 prerequisite for SPED 3301.
- 8 BESL 3301 prerequisite for TESL 3313.
- 9 TESL 3313 prerequisite for TESL 4314.
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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 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.