

# BACHELOR OF SCIENCE, DOUBLE MAJOR IN EDUCATION AND MATHEMATICS

Code	Title	Hours
<b>Bachelor of Science, Double Major in Education and Mathematics</b>		
<b>Core Curriculum</b> ( <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>		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) <sup>2</sup>		3
<b>Degree Specific Requirements</b>		
ENGL 2332	World Literature I: Before the 17th Century <sup>2</sup>	3
MATH 1420	Calculus I <sup>1</sup>	4
<b>Major Required (Education)</b>		
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
<b>Major Required (Mathematics)</b>		
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
<b>Student Teaching</b>		
CISE 4380	Responsibilities of the Professional Educator	3
CISE 4396	Student Teaching - Secondary Classroom	3
CISE 4397	Student Teaching - Secondary Classroom	3
<b>Minor: Not Required</b> <sup>3,4</sup>		
<b>Total Hours</b>		<b>122</b>

<sup>1</sup> Satisfies the Core Curriculum requirement for Component Area II (Mathematics).

<sup>2</sup> ENGL 2332 satisfies both the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.

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<sup>3</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 credits hours may be needed above the degree program's stated total semester credit hours.

<sup>4</sup> 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 ( <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> )		4 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> )	4
Component Area IV ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiiv">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiiv</a> )		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> )	3
ENGL 1301 <sup>1</sup>		3 ENGL 1302 <sup>1</sup>	3
HSTY 1301 <sup>2</sup>		3 MATH 1430	4
MATH 1420 <sup>3</sup>		4 MATH 3379	3
		<b>17</b>	<b>17</b>

**Second Year**

Fall	Hours	Spring	Hours
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> )		3 CISE 3384	3
HSTY 1302 <sup>2</sup>		3 CISE 4374	3
MATH 2440		4 MATH 3363	3
MATH 3300		3 MATH 3377	3
POLS 2305 <sup>4</sup>		3 POLS 2306 <sup>4</sup>	3
		<b>16</b>	<b>15</b>

**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	
		<b>18</b>	<b>15</b>

**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 <sup>5</sup>	3	
MATH Advanced Elective	3	
<b>15</b>		<b>9</b>

**Total Hours: 122**

- <sup>1</sup> Satisfies the Core Curriculum requirement for Component Area I (Communications).
- <sup>2</sup> Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).
- <sup>3</sup> Satisfies the Core Curriculum requirement for Component Area II (Mathematics).
- <sup>4</sup> Satisfies the Core Curriculum requirement for Component Area VII (Political Science).
- <sup>5</sup> ENGL 2332 satisfies both the Core Curriculum requirement for Component Area IX (Component Area Option) and the major.

**Notes**

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Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

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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.

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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.