

# BACHELOR OF ARTS, MAJOR IN MATHEMATICS WITH SECONDARY CERTIFICATION WITH TWO TEACHING FIELDS

## Bachelor of Arts, Major in Mathematics with Secondary Certification With Two Teaching Fields

**Core Curriculum** ([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))

Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) Courses for Science Majors		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)		4
<b>Degree Specific Requirements</b>		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century	3
FOLG 1411 & FOLG 1412 & FOLG 2311 & FOLG 2312	Beginning Foreign Language I and Beginning Foreign Language II and Intermediate Foreign Language and Intermed Foreign Language II	14
PHIL 2303	Critical Thinking	3
PHYS 1411 or PHYS 1422	Introduction To Physics I Introduction To Physics II	4
Science Courses for Science Majors (Choose 8 hours from same department from Component Area III)		8
<b>Major Core</b>		
MATH 1420	Calculus I <sup>3</sup>	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction To Math Thought	3
MATH 3363	Euclidean Geometry	3
MATH 3377	Intro To Linear Alg & Matrices	3
MATH 3379 or MATH 4371	Statistical Mthods In Practice Thry & Appl Of Prob & Stat I	3
MATH 4361	Introductory Analysis	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Advanced MATH electives		6
<b>Minor</b>		
Secondary Teaching Field		12
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4377	Assmt Stdnt Lrng In Secondary	3
CISE 4378	Content Literacy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Total Hours		135

<sup>1</sup> Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and Degree Specific requirement.

<sup>2</sup> MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and major.

**First Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours Summer</b>	<b>Hours</b>
COSC 1436	4 Component Area V (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareav)	3 Minor Course	3
ENGL 1301 <sup>1</sup>	3 ENGL 1302 <sup>1</sup>	3	
FOLG 1411	4 FOLG 1412	4	
HIST 1301 <sup>2</sup>	3 HIST 1302 <sup>2</sup>	3	
MATH 1420 <sup>3</sup>	4 MATH 1430	4	
	Minor Course	3	
	18	20	3

**Second Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area III (Science course for science majors)	4 Component Area III (Science course for science majors)	4
FOLG 2311 <sup>4</sup>	3 FOLG 2312	3
MATH 2440	4 MATH 3363	3
MATH 3300	3 MATH 3377	3
MATH 3379 or 4371	3 Minor Course	3
PHYS 1411 or 1422	4 POLS 2305 <sup>5</sup>	3
	21	19

**Third Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
MATH 4361	3 CISE 3384	3
MATH 4384	3 ENGL 2332 <sup>7</sup>	3
MATH Advanced Elective	3 MATH 4377	3
PHIL 2303 <sup>6</sup>	3 MATH 4385	3
POLS 2306 <sup>5</sup>	3 MATH Advanced Elective	3
	Minor Course	3
	15	18

**Fourth Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
CISE 4364	3 CISE 4394	3
CISE 4377	3 CISE 4396	3
CISE 4378	3 CISE 4397	3
CISE 4380	3	
	12	9

Total Hours: 135

<sup>1</sup> Satisfies Core Curriculum requirement for Component Area I (Communications).

<sup>2</sup> Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

<sup>3</sup> Satisfies Core Curriculum requirement for Component Area II and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

<sup>4</sup> Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

- 5 Satisfies Core Curriculum requirement for Component Ara VII (Political Science/Government).
- 6 Satisfies Core Curriculum requirement for Component Ara VIII (Social and Behavioral Sciences).
- 7 Satisfies Core Curriculum requirement for Component Ara IX (Component Area Option).