

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

Code	Title	Hours
<b>Bachelor of Arts, Major in Mathematics with Secondary Certification With Two Teaching Fields</b>		
<b>Core Curriculum</b> (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 <sup>1</sup>	3
WOLC 1411 & WOLC 1412 & WOLC 2311 & WOLC 2312	Beginning Foreign Language I and Beginning Foreign Language II and Intermediate Foreign Language and Intermed Foreign Language II <sup>2</sup>	14
PHIL 2303	Critical Thinking <sup>3</sup>	3
PHYS 1411 or PHYS 1422	Introduction To Physics I <sup>4</sup> Introduction To Physics II	4
Science Course for Science Majors (Choose 4 hours from same department from Component Area III) <sup>5</sup>		4
<b>Major Core</b>		
MATH 1420	Calculus I <sup>6</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 4367	The Evolution of Mathematics	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 <sup>7</sup>		18
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	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		134

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

- 1 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).  
 2 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).  
 3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).  
 4 PHYS 1411 satisfies four hours of Component Area III (Life and Physical Science).  
 5 Satisfies four hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).  
 6 MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and Degree Specific requirement.  
 7 Three or more hours of Core Curriculum requirements may be used to satisfy Secondary Teaching Field requirements.

**First Year**

Fall	Hours Spring	Hours Summer	Hours
Component Area III <sup>1</sup>	4 ENGL 1302 <sup>2</sup>	3 Component Area V (catalog.shsu.edu/ undergraduate/ academic-policies- procedures/degree- requirements- academic-guidelines/ core-curriculum/ #componentareav)	3
ENGL 1301 <sup>2</sup>	3 HIST 1302 <sup>3</sup>	3 Minor Course	3
HIST 1301 <sup>3</sup>	3 MATH 1430	4	
MATH 1420 <sup>4</sup>	4 Minor Course	3	
WOLC 1411	4 WOLC 1412	4	
	18	17	6

**Second Year**

Fall	Hours Spring	Hours
MATH 2440	4 COSC 1436	4
MATH 3300	3 MATH 3363	3
MATH 3379 or 4371	3 MATH 3377	3
PHYS 1411 or 1422	4 Minor Course	3
WOLC 2311	3 POLS 2305 <sup>6</sup>	3
	WOLC 2312	3
	17	19

**Third Year**

Fall	Hours Spring	Hours
MATH 4367	3 CISE 4378	3
MATH 4385	3 CISE 4380	3
CISE 3384	3 MATH 4377	3
Minor Course <sup>7</sup>	3 MATH 4384	3
PHIL 2303 <sup>8</sup>	3 MATH Advanced Elective	3
POLS 2306 <sup>5</sup>	3 Minor Course	3
	18	18

**Fourth Year**

Fall	Hours Spring	Hours
CISE 4364	3 CISE 4394	3
CISE 4379	3 CISE 4396	3
ENGL 2332 <sup>9</sup>	3 CISE 4397	3
MATH Advanced Elective	3	
	12	9

Total Hours: 134

- 1 Science Course for Science Majors—Choose 4 hours from same department from Component Area III.
- 2 Satisfies Core Curriculum requirement for Component Area I (Communications).
- 3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- 4 Satisfies Core Curriculum requirement for Component Area II.
- 5 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
- 6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- 7 Three or more hours of Core Curriculum requirements may be used to satisfy the Secondary Teaching Field requirements.
- 8 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- 9 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).