

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)

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

Degree Specific Requirements

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 ¹ Introduction To Physics II	4
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century	3
Science Courses for Science Majors (Choose 8 hours from same department from Component Area III)		8

Major Core

MATH 1420	Calculus I ³	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3363	Euclidean Geometry	3
MATH 3300	Introduction To Math Thought	3
MATH 3377	Intro To Linear Alg & Matrics	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

Minor

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

¹ PHYS 1422 satisfies component area and degree specific.

² ENGL Literature satisfies component area and degree specific.

³ MATH 1420 satisfies component required by major.

First Year

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

Second Year

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

Third Year

Fall	Hours Spring	Hours
MATH 4361	3 MATH 4377	3
MATH 4384	3 MATH 4385	3
POLS 2306 ⁶	3 CISE 3384	3
Advanced MATH elective	3 Advanced MATH elective	3
PHIL 2303 ⁷	3 ENGL 2332	3
	Course for minor	3
	15	18

Fourth Year

Fall	Hours Spring	Hours
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

¹ Satisfies Component Ara II and one hour of Component Area IX.

² Satisfies Component Ara I.

³ Satisfies Component Ara VI.

- 4 Satisfies Component Ara III.
- 5 Satisfies Component Ara IV.
- 6 Satisfies Component Ara VII.
- 7 Satisfies Component Ara VIII.