

BACHELOR OF SCIENCE, MAJOR IN MATHEMATICS WITH TEACHER CERTIFICATION

For Students Selecting a Minor as a Second Teaching Field

The requirements include:

MATH 1420	Calculus I	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	Statistical Mthods In Practice	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4385	Mathematical Problem Solving	3
Total Hours		36

For Students Who do not Select a Minor

MATH 1420	Calculus I	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	Statistical Mthods In Practice	3
MATH 4377	Algebraic Structures	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Select one of the following options:		6

OPTION 1: (Analysis Emphasis)

MATH 4361 Introductory Analysis

An advanced MATH course

OPTION 2: (Statistics Emphasis)

MATH/STAT 4371 Thry & Appl Of Prob & Stat I

An advanced STAT course

Total Hours		42
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Bachelor of Science, Major in Mathematics with Teacher Certification

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)	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

PHYS 1411 & PHYS 1422 or PHYS 2426	Introduction To Physics I and Introduction To Physics II Heat, Waves & Modern Physics	8
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century ¹	3
Science Courses for Science Majors - Select 8 hours from the following: ²		8
BIOL 1411 & BIOL 1413	General Botany and General Zoology	
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	
8 hours from GEOL 1403, GEOL 1404, GEOL 1405, GEOG 1401		
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	Statistical Mthods In Practice	3
MATH 4377	Algebraic Structures	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Major		
Select one of the following Options:		6
Option 1:		
MATH 4361	Introductory Analysis	
An Advanced MATH elective		
Option 2:		
STAT 4371	Thry & Appl Of Prob & Stat I	
An advanced STAT elective		
Minor		
CISE 3384	The Teaching Profession (Junior)	3
CISE 4364	Mth Tch Secondary Schools (Senior)	3
CISE 4377	Assmt Stdnt Lrng In Secondary (Senior)	3
CISE 4378	Content Literacy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary (Senior)	3
CISE 4396	Std Tch Secondary Classroom (Senior)	3
CISE 4397	Std Tch Secondary Classroom (Senior)	3
MATH Elective		6
Elective		1
Total Hours		123

¹ Satisfies Component Area IX.

² Satisfies Component Area III.

³ Satisfies Component Area II and one hour of Component Area IX.

First Year

Fall	Hours Spring	Hours
MATH 1420	4 MATH 1430	4
ENGL 1301	3 ENGL 1302	3
Component Area III - Science Course for Science Major	4 Component Area III - Science Course for Science Major	4

COSC 1436	4 MATH 3379	3
Component Area IV (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)	3 Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)	3
	18	17
Second Year		
Fall	Hours Spring	Hours
POLS 2305	3 POLS 2306	3
HIST 1301	3 HIST 1302	3
MATH 2440	4 MATH 3363	3
MATH 3300	3 MATH 3377	3
PHYS 1411	4 PHYS 1422 or 2426	4
	17	16
Third Year		
Fall	Hours Spring	Hours
Component Area VIII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)	3 CISE 3384	3
MATH 4367	3 ENGL 2332	3
MATH 4377	3 MATH 4385	3
MATH 4384	3 MATH elective	3
MATH elective	3 Elective	1
Option 1 or 2	3 Option 1 or 2 (3 additional hours from same option)	3
	18	16
Fourth Year		
Fall	Hours Spring	Hours
CISE 4364	3 CISE 4377	3
CISE 4378	3 CISE 4396	3
CISE 4380	3 CISE 4397	3
CISE 4394	3	
	12	9

Total Hours: 123

- 1 Satisfies Component Area II and one hour of Component Area IX.
- 2 Satisfies Component Area I.
- 3 Satisfies Component Area III.
- 4 Satisfies Component Area VII.
- 5 Satisfies Component Area VI.
- 6 Satisfies Component Area IX.