BACHELOR OF ARTS, MAJOR IN MATHEMATICS

Bachelor of Arts, Major in Mathematics				
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 Phys	Component Area III (Life and Physical Science)			
Component Area IV (Language, Ph	ilosophy, and Culture)	3		
Component Area V (Creative Arts)				
Component Area VI (U.S. History)	Component Area VI (U.S. History)			
Component Area VII (Political Scie	Component Area VII (Political Science/Government)			
Component Area VIII (Social and B	ehavioral Sciences)	3		
Component Area IX (Component A	rea Option)	4		
Degree Specific Requirements				
COSC 1436	Programming Fundamentals I	4		
ENGL 2332	Wrld Lit I: Before 17 Century ³	3		
FOLG 1411 & FOLG 1412	Beginning Foreign Language I and Beginning Foreign Language II	14		
& FOLG 1412 & FOLG 2311	and Deginning Foreign Language in and Intermediate Foreign Language			
& FOLG 2312	and Intermed Foreign Language II ¹			
PHIL 2303	Critical Thinking ²	3		
PHYS 1411	Introduction To Physics I	4		
or PHYS 1422	Introduction To Physics II			
Science Courses for Science Majors from Component Area III list				
Major Core				
MATH 1420	Calculus I ³	4		
MATH 1430	Calculus II	4		
MATH 2440	Calculus III	4		
MATH 3300	Introduction To Math Thought	3		
MATH 3377	Intro To Linear Alg & Matrics	3		
MATH 4361	Introductory Analysis	3		
MATH 4366	Elementary Analysis	3		
MATH 4371	Thry & Appl Of Prob & Stat I	3		
MATH 4377	Algebraic Structures	3		
Major				
MATH electives		9		
Minor		18		
Electives (To bring to 120 total hrs		6		
Total Hours		120		

FOLG 2311 satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

The following courses can only be used as required advanced electives by students who are seeking elementary/middle school teacher certification:

Required Advanced Electives: Elementary/Middle School Teacher Certification

MATH 3380	Historical Perspec of Math	3
MATH 3381	Intro - Foundation Of Math III	3
MATH 3383	Geometric Meas./Transformation	3
MATH 3384	Foundations Of Mathematics	3

PHIL 2303 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

ENGL 2332 satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

Bachelor of Arts, Major in Mathematics

MATH Advanced Elective

2

MATH 3386	Fundmtls Probability/Stats 3				
MATH 3387	Problem Solving-Middle Sch Mth 3				
The fellowing covered con only be a	The following courses can only be used as required advanced electives by students who are seeking secondary teacher certification:				
The following courses can only be u	sed as required advanced ele	ectives by students who are seeking secondary teacher certification:			
Required Advanced Electives: Seco	ndary Teacher Certification				
MATH 4384	Survey Of Mathematical Ideas 3				
MATH 4385	Mathematical Problem Solving 3				
Students should use the minor and	Students should use the minor and advanced general electives to complete the 42-advanced hour requirement for graduation.				
In order to satisfy the Core Curriculum requirement for Component Area II (Life and Physical Science), except for the Department of Physics, the student must take classes from the following:					
Courses for Science Majors					
Course Requirements					
BIOL 1411	General Botany		4		
BIOL 1413	General Zoology		4		
BIOL 2401	Human Anatomy		4		
CHEM 1411	General Chemistry I		4		
CHEM 1412	General Chemistry II		4		
Any lab course from Geology or Geo	•				
-					
First Year					
Fall		Hours Spring	Hours		
Component Area III (Science Course	e for Science Major)	4 Component Area III (Science Course for Science Majors)	4		
ENGL 1301 ¹		3 ENGL 1302	3		
HIST 1301 ²		3 HIST 1302 ²	3		
MATH 1420 ³		4 MATH 1430	4		
		14	14		
Second Year					
Fall		Hours Spring	Hours		
FOLG 1411		4 FOLG 1412	4		
MATH 2440		4 MATH 3377	3		
MATH 3300		3 Minor Course	3		
PHYS 1411 or 1422		4 PHIL 2303 ⁵	3		
POLS 2305 ⁴		3 POLS 2306 ⁴	3		
		18	16		
Third Year					
Fall		Hours Spring	Hours		
ENGL 2332 ⁶		3 COSC 1436	4		
FOLG 2311 ⁷		3 FOLG 2312	3		
MATH 4361		3 MATH 4366	3		
MATH 4371		3 MATH Advanced Elective	3		
Minor Course		3 Minor Course	3		
		15	16		
Fourth Year					
Fall		Hours Spring	Hours		
Component Area V (catalog.shsu.edu/undergraduate/		3 Elective	3		
academic-policies-procedures/degree-requirements-			_		
academic-guidelines/core-curriculum/#componentareav)					
Elective		3 MATH Advanced Elective	3		
MATH 4377		3 Minor Course			
MATIL Advanced Fleetive		·			

3 Minor Course

Minor Course	3	
	15	12

Total Hours: 120

- Satisfies Core Curriculum requirement for Component Area I (Communications).
- Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
- Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).
- Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
- Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
- Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
- Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).