BACHELOR OF SCIENCE, MAJOR IN MATHEMATICS

Bachelor of Science, Major in Mathe	ematics	
Core Curriculum (catalog.shsu.edu/	/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum)	
Component Area I (Communication)		
Component Area II (Mathematics) satisfied by major		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	Introduction To Physics I	8
& PHYS 1422	and Introduction To Physics II	
or PHYS 2426	Heat, Waves & Modern Physics	
ENGL 2332	Wrld Lit I: Before 17 Century 1	3
Science Courses for Science Majors	s - Select 8 hours from the following: ²	8
BIOL 1411	General Botany	
& BIOL 1413	and General Zoology	
CHEM 1411 & CHEM 1412	General Chemistry I	
8 hours from GEOL 1403, GEOL 1	and General Chemistry II	
COSC 1436	Programming Fundamentals I	4
Major Core	Frogramming Fundamentals i	4
MATH 1420	Calculus I ³	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction To Math Thought	3
MATH 3376	Differential Equations	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	J	
Advanced MATH Electives		18
Elective		1
Minor		18
Total Hours		120
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ENGL 2332 satisfies Component Area IV.

The following courses can only be used as required advanced electives by students who are seeking 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
MATH 3386	Fundmtls Probability/Stats	3

Satisfies Component Area III.

MATH 1420 satisfies Component Area II and one hour of Component Area IX.

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