

# MATHEMATICS (B.A.)

Degree: Bachelor of Arts

Major: Mathematics

Total Hours: 120

- 42 hours – General Education Core Curriculum Requirement
- 9 hours – Additional modern language requirements (through 2312)
- 3 hours – A second literature course
- 23 hours – Mathematics Core
- 12 hours – Mathematics Electives
- 3 hours – COSC
- 21 hours – Minor
- 7 hours – PHIL 2303 Introduction to Logic and 4 hours general electives

120 hours - Total

Code	Title	Hours
<b>General Education Core Curriculum</b>		
<i>Communication</i>		
ENGL 1301	Composition I	3
Select one of the following:		3
DSDE 1371	ASL I	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
<i>Mathematics</i>		
MATH 2413	Calculus and Analytical Geometry I <sup>1</sup>	4
<i>Life and Physical Sciences <sup>4</sup></i>		
Select two courses in the same discipline from the following: <sup>1</sup>		6
BIOL 1406	General Biology I (Majors)	
BIOL 1407	General Biology II (Majors)	
CHEM 1311	General Chemistry I	
CHEM 1312	General Chemistry II	
GEOL 1403	Geology I: Physical Geology	
GEOL 1404	Geology II: Historical Geology	
PHYS 2425	University Physics I	
PHYS 2426	University Physics II	
<i>Language, Philosophy and Culture</i>		
Select one of the following:		3
DSDE 1374	Introduction to Deaf Studies	
ENGL 2300	Close Reading II	
ENGL 2322	British Literature	
ENGL 2326	American Literature	
ENGL 2331	World Literature	
ENGL 2376	African-American Literature	
FREN 2312	Intermediate French II	
SPAN 2312	Intermediate Spanish II	
PHIL 1370	Philosophy of Knowledge	
PHIL 2306	Ethics	
<i>Creative Arts</i>		
Select one of the following:		3
ARTS 1301	Art Appreciation	

ARTS 1303	Art History I	
COMM 1375	Film Appreciation	
COSC 1324	The Art of Computer Game Development	
DANC 2304	Dance Appreciation	
MUSI 1306	Music Appreciation	
MUSI 1309	Jazz History and Appreciation	
MUSI 1310	History of Rock and Roll	
PHIL 1330	Arts and Ideas	
THEA 1310	Theatre Appreciation	
<i>American History</i>		
Select two of the following:		6
HIST 1301	U S History I 1763-1877	
HIST 1302	U S History II Since 1877	
HIST 2301	Texas History	
<i>Government/Political Science</i>		
POLS 2301	Intro to American Government I	3
POLS 2302	Intro/American Government II	3
<i>Social and Behavioral Science</i>		
Select one of the following:		3
ANTH 2346	Introduction to Anthropology	
ANTH 2351	Cultural Anthropology	
BULW 1370	Business Environment and Public Policy	
CRIJ 1301	Intro to Criminal Justice	
ECON 1301	Principles and Policies	
ECON 2301	Principles of Economics I Macro	
ECON 2302	Principles of Economics II Micro	
FINC 2310	Intro to Consumer Finance	
INEN 2373	Engineering Economics	
POLS 1301	Intro to Political Science	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	
<i>Component Area Option <sup>1</sup></i>		
ENGL 1302	Composition II	3
The additional three hours are applied here		3
<b>Required Major Courses</b>		
<i>Math Requirements</i>		
MATH 2318	Linear Algebra	3
MATH 2414	Calculus and Analytical Geometry II	4
MATH 2415	Calculus III	4
MATH 3322	Introduction to Advanced Mathematics	3
MATH 3350	Modern Algebra - Groups	3
or MATH 3351		Modern Algebra - Rings
MATH 3370	Introduction to the Theory of Statistical Inference	3
MATH 4325	Analysis I	3
Select one of the following Programming Courses: <sup>3</sup>		3
COSC 1336	Programming Fundamentals I	
or COSC 1173		Programming Lab
COSC 3306	UNIX/C++	
ELEN 1301	Computers and Programming I	
<i>Advanced Math Electives</i>		

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Selected math courses - see advisor	12
<b>Electives</b>	
Elective courses	6
<b>Other</b>	
<i>Literature and Language Requirements</i>	
English Lit Course	3
Foreign Language Courses - 1312, 2311, 2312	9
<b>Minor</b>	
Minor <sup>3</sup>	21
<b>Total Hours</b>	<b>120</b>

- 1 The additional three hours from these sections are applied in the Component Area Option.
- 2 With Departmental Approval
- <sup>3</sup> Minor is required. Minimum 21 hours, 15 of which must be at the 3000 level or above. Must be from a discipline other than Mathematics.
- <sup>4</sup> Department prefers a 4-credit hour lab science.

Students must make a C or better on all MATH Courses

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
MATH 2413	Calculus and Analytical Geometry I	4
ENGL 1301	Composition I	3
HIST 1301	U S History I 1763-1877	3
Lab Science <sup>4</sup>		3
Creative Art		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 2414	Calculus and Analytical Geometry II	4
ENGL 1302	Composition II	3
HIST 1302	U S History II Since 1877	3
Lab Science <sup>4</sup>		3
<b>Hours</b>		<b>13</b>
<b>Second Year</b>		
<b>Fall</b>		
MATH 2318	Linear Algebra	3
MATH 2415	Calculus III	4
Language, Philosophy, and Culture		3
POLS 2301	Intro to American Government I	3
Modern Language - one from		3
DSDE 1371	ASL I	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 3322	Introduction to Advanced Mathematics	3
ENGL Lit		3
POLS 2302	Intro/American Government II	3
Modern Language - one from		3
DSDE 1372	ASL II	
FREN 1312	Beginning French II	
SPAN 1312	Beginning Spanish II	
Minor elective		3
<b>Hours</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
MATH 3350	Modern Algebra - Groups	3
MATH 4325	Analysis I	3

Social/Behavioral Sci		3
Modern Language - one from		3
DSDE 2371	ASL III	
FREN 2311	Intermediate French I	
SPAN 2311	Intermediate Spanish I	
Minor Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MATH 3370	Introduction to the Theory of Statistical Inference	3
MATH elective		3
COSC		3
Modern Language - one from		3
DSDE 2372	American Sign Language IV	
FREN 2312	Intermediate French II	
SPAN 2312	Intermediate Spanish II	
Minor elective		3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>		
MATH elective <sup>1</sup>		3
MATH elective <sup>1</sup>		3
Minor elective		3
Minor elective		3
Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MATH elective <sup>1</sup>		3
ENGL lit		3
Minor elective		3
Minor elective		3
Elective		3
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Math electives - see advisor

<sup>2</sup> Department prefers a 4-credit hour lab science.