

# MATHEMATICS (B.S.) WITH TEACHER CERTIFICATION

Degree: Bachelor of Science

Major: Mathematics

Concentration: Mathematics Education

Total Hours: 120

Code	Title	Hours
<b>General Education Core Curriculum</b>		
<i>Communication</i>		
ENGL 1301	Composition I	3
Select one of the following:		3
COMM 1315	Public Speaking I	
COMM 1321	Business and Professional Speech	
DSDE 1371	ASL I	
ENGL 1302	Composition II	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
<i>Mathematics<sup>1</sup></i>		
MATH 2413	Calculus and Analytical Geometry I	4
<i>Life and Physical Sciences</i>		
Select two of 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 1403	Geology I: Physical Geology	
PHYS 2425	University Physics I	
PHYS 2426	University Physics II	
<i>Language, Philosophy and Culture</i>		
Select one of the following:		3
ENGL 2300	Close Reading II	
DSDE 1374	Introduction to Deaf Studies	
ENGL 2322	British Literature	
ENGL 2326	American Literature	
ENGL 2331	World Literature	
ENGL 2376	African-American Literature	
PHIL 1370	Philosophy of Knowledge	
PHIL 2306	Ethics	
FREN 2312	Intermediate French II	
SPAN 2312	Intermediate Spanish II	
<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 Sciences</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	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
POLS 1301	Intro to Political Science	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	
<i>Component Area Option</i>		
ENGL 1302	Composition II	3
The additional hours from these sections are applied here		3
<b>Required Major Courses</b>		
<i>Mathematics Course</i>		
MATH 2318	Linear Algebra	3
MATH 2414	Calculus and Analytical Geometry II	4
MATH 2415	Calculus III	4
MATH 3300	History of Mathematics	3
MATH 3321	Discrete Structures	3
MATH 3322	Introduction to Advanced Mathematics	3
MATH 3313	Elementary Geometry	3
MATH 3370	Introduction to the Theory of Statistical Inference	3
MATH 4307	Problem Solving	3
MATH 4321	Topics in Secondary Math	3
MATH 4325	Analysis I	3
MATH 3350	Modern Algebra - Groups	3
or MATH 3351 Modern Algebra - Rings		
Select one Programming Course from the following: <sup>2</sup>		3
COSC 1336	Programming Fundamentals I	
& COSC 1173	and Programming Lab	
COSC 3306	UNIX/C++	
ELEN 1301	Computers and Programming I	

2 Mathematics (B.S.) with Teacher Certification

<i>Mathematics Electives</i>		
Electives <sup>3</sup>		3
<i>Electives Courses</i>		
12 hours of elective coursework <sup>3</sup>		12
<b>Other</b>		
<i>Education Requirements</i>		
PEDG 2310	Introduction to Teacher Education	3
PEDG 3300	Human Development and Learning	3
PEDG 3380	Secondary Curriculum and Methodology	3
PEDG 4380	Secondary Methodology and Classroom Management	3
	or PEDG 4340 Managing Early Childhood Classroom Environment	
PEDG 4620	Clinical Teaching	6
READ 3326	Content Area Reading	3
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> The additional hours from these sections are applied to the Component Area Option.

<sup>2</sup> With Departmental Approval

<sup>3</sup> Please see your advisor for options.

Students must make at least a C in 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
Lab Science		3
HIST 1301	U S History I 1763-1877	3
COMM		3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 2414	Calculus and Analytical Geometry II	4
MATH 3321	Discrete Structures	3
ENGL 1302	Composition II	3
HIST 1302	U S History II Since 1877	3
Lab Science		3
<b>Hours</b>		<b>16</b>
<b>Second Year</b>		
<b>Fall</b>		
MATH 2415	Calculus III	4
MATH 2318	Linear Algebra	3
PHIL 2303	Introduction to Logic	3
ENGL Lit		3
POLS 2301	Intro to American Government I	3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 3300	History of Mathematics	3
MATH 3322	Introduction to Advanced Mathematics	3
Social/Behavioral Science		3
POLS 2302	Intro/American Government II	3
PEDG 2310	Introduction to Teacher Education	3
Creative Arts		3
<b>Hours</b>		<b>18</b>
<b>Third Year</b>		
<b>Fall</b>		
MATH 3350	Modern Algebra - Groups	3
MATH 4325	Analysis I	3

PEDG 3300	Human Development and Learning	3
Elective		3
Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MATH 3370	Introduction to the Theory of Statistical Inference	3
MATH 3313	Elementary Geometry	3
PEDG 3380	Secondary Curriculum and Methodology	3
COSC		3
READ 3326	Content Area Reading	3
Elective		3
<b>Hours</b>		<b>18</b>
<b>Fourth Year</b>		
<b>Fall</b>		
MATH 4321	Topics in Secondary Math	3
MATH 4307	Problem Solving	3
PEDG 4380	Secondary Methodology and Classroom Management	3
MATH elective		3
Elective		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
PEDG 4620	Clinical Teaching	6
<b>Hours</b>		<b>6</b>
<b>Total Hours</b>		<b>120</b>