

# SECONDARY EDUCATION: MATHEMATICS, BS

## Example Plan of Study

### Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
ENGL 1113 or ENGL 1313	Composition I or Critical Analysis and Writing I	3
HIST 1103 or HIST 1483 or HIST 1493	Survey of American History or American History to 1865 (H) or American History Since 1865 (DH)	3
MATH 2144	Calculus I (A)	4
Course designated (S)		3
SMED 1012	Inquiry Approaches to Teaching	2
EDHS 1112	First Year Seminar	2
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
ENGL 1213 or ENGL 1413 or ENGL 3323	Composition II or Critical Analysis and Writing II or Technical Writing	3
POLS 1113	American Government	3
Course designated (H)		3
MATH 2153	Calculus II (A)	3
CS 1103 or CS 1113	Computer Programming (A) or Computer Science I (A)	3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
Elective or Foreign Language		3
PHYS 1114 or PHYS 2014	College Physics I (LN) or University Physics I (LN)	4
MATH 2163	Calculus III	3
MATH 3013	Linear Algebra (A)	3
Elective		2
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
SMED 3013	Knowing and Learning in Mathematics and Science	3
PHYS 1214 or PHYS 2114	College Physics II (LN) or University Physics II (LN)	4
Elective or Foreign Language		3
MATH 2233	Differential Equations	3
MATH 3613	Introduction to Abstract Algebra	3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
SMED 4013	Classroom Interactions	3
MATH 3303	Advanced Perspectives on Secondary Mathematics	3
MATH 4033	History of Mathematics	3
SPED 3202	Educating Exceptional Learners (D)	2
STAT 4013 or STAT 4053	Statistical Methods I (A) or Statistical Methods I for the Social Sciences (A)	3

Course designated (A), (H), (N), or (S)		1
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
SMED 4003	Teaching Fundamental Concepts of Mathematics	3
MATH 3933	Introduction to Mathematical Research	3
MATH 4663	Combinatorics	3
Course designated (H)		3
Select 3 hours of 4000-level MATH or STAT or upper-division CS or PHYS		3
Course designated (A), (H), (N) or (S)		3
<b>Hours</b>		<b>18</b>
<b>Senior</b>		
<b>Fall</b>		
SMED 4053	Teaching Geometry in the Secondary School	3
SMED 4023	Problem-Based Learning in Mathematics and Science	3
MATH 4403	Geometry	3
MATH 4713 or MATH 4753	Number Theory or Introduction to Cryptography	3
MATH 4023	Introduction to Analysis	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CIED 4720	Internship in the Secondary Classroom	6
SMED 4723	Senior Seminar in Secondary Mathematics and Science Education	3
<b>Hours</b>		<b>9</b>
<b>Total Hours</b>		<b>120</b>