

# Mathematics Major with Education Concentration

## B.S. in Mathematics-Education Concentration - Curriculum Map

Freshman			
Fall	Cr.	Spring	Cr.
ED 104 Foundations of Education	3	EN 102 Composition and Literature II	3
EN 101 Composition and Literature I	3	General Education Lab Science	4
General Education Lab Science	4	MA 122 Calculus II (General Education Math) <sup>c1</sup>	4
MA 121 Calculus I (General Education Math) <sup>c1</sup>	4	MA 241 Mathematical Computation and Modeling	3
PY 211 Introduction to Psychology	3	PY 220 Developmental Psychology	3
<b>Semester Total Credits</b>	<b>17</b>	<b>Semester Total Credits</b>	<b>17</b>
Sophomore			
Fall	Cr.	Spring	Cr.
ED 234 Learning and Teaching Strategies	4	EN 202 World Literature II	3
EN 201 World Literature I (General Education Literature)	3	MA 224 Differential Equations <sup>c1</sup>	4
MA 223 Calculus III <sup>c2</sup>	4	MA 310 Linear Algebra <sup>c2</sup>	3
MA 306 Discrete Mathematics <sup>c2</sup>	3	PS 212 University Physics II	4
PS 211 University Physics I	4	ED 315 Special Needs Child	3
<b>Semester Total Credits</b>	<b>18</b>	<b>Semester Total Credits</b>	<b>17</b>
Junior			
Fall	Cr.	Spring	Cr.
General Education History	3	ED 363 Reading and Writing in the Content Area	4
MA 303 Advanced Calculus I or 309 Algebraic Structures <sup>1, c2</sup>	3	General Education Arts & Humanities	3
MA 311 Statistical Methodology <sup>c2</sup>	3	Mathematics Elective	3
PY 324 Adolescent Psychology	3-4	Mathematics Elective	3
PY 352 Learning and Memory	4	MA 304 Advanced Calculus II or 312 Statistical Methodology II <sup>2</sup>	3
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3	MA 250 Communication in Mathematics	1
<b>Semester Total Credits</b>	<b>19-20</b>	<b>Semester Total Credits</b>	<b>17</b>
Senior			
Fall	Cr.	Spring	Cr.
ED 368 Curriculum & Methods in Secondary Subjects	4	ED 425 Student Teaching	12
General Education Philosophy	3		
MA 309 Algebraic Structures or 303 Advanced Calculus I <sup>1, c2</sup>	3		
MA 411 Senior Seminars <sup>c2</sup>	3		
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3		
<b>Semester Total Credits</b>	<b>16</b>	<b>Semester Total Credits</b>	<b>12</b>
<b>Total Credits For This Major: 133-134</b>			

<sup>1</sup> MA 303 and MA 309 alternate as fall semester courses; both courses are required. For years these courses are offered, see Course Descriptions.

<sup>2</sup> MA 304 and MA 312 alternate as spring semester courses; one of the two courses is required.

<sup>c1</sup> Grade of C or higher required in 3 of the 4 courses.

<sup>c2</sup> Grade of C or higher in at least 6 Math courses at the 300/400 level (other than MA 360).