

# Mathematics Major with Education Concentration

Print PDF Curriculum Map ([http://catalog.norwich.edu/residentialprogramscatalog/mthed/mthed\\_1499877679200.pdf](http://catalog.norwich.edu/residentialprogramscatalog/mthed/mthed_1499877679200.pdf))

## B.S. in Mathematics-Education Concentration - Curriculum Map 2017-2018 Catalog

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It is recommended that students completing this concentration also major in Secondary Teacher Licensure.

<b>Freshman</b>			
<b>Fall</b>	<b>Cr.</b>	<b>Spring</b>	<b>Cr.</b>
ED 104 Foundations of Education	3	EN 102 Composition and Literature II	3
EN 101 Composition and Literature I	3	General Education Lab Science ( <a href="http://catalog.norwich.edu/archives/2017-18/residentialprogramscatalog/generaleducationgoals">http://catalog.norwich.edu/archives/2017-18/residentialprogramscatalog/generaleducationgoals</a> )	4
General Education Lab Science ( <a href="http://catalog.norwich.edu/archives/2017-18/residentialprogramscatalog/generaleducationgoals">http://catalog.norwich.edu/archives/2017-18/residentialprogramscatalog/generaleducationgoals</a> )	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
Semester Total Credits	17	Semester Total Credits	17
<b>Sophomore</b>			
<b>Fall</b>	<b>Cr.</b>	<b>Spring</b>	<b>Cr.</b>
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
Semester Total Credits	18	Semester Total Credits	17
<b>Junior</b>			
<b>Fall</b>	<b>Cr.</b>	<b>Spring</b>	<b>Cr.</b>
General Education History <sup>1</sup>	3	ED 363 Reading and Writing in the Content Area	4
MA 303 Advanced Calculus I or 309 <sup>2, c2</sup>	3	General Education Arts & Humanities	3
MA 311 Statistical Methodology <sup>c2</sup>	3	Mathematics Elective	3
Mathematics Elective	3	MA 304 Advanced Calculus II or 312 <sup>3</sup>	3
PY 324 Adolescent Psychology	3-4	MA 250 Communication in Mathematics	1
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3	PY 352 Learning and Memory	4
		SO 214 Racial and Cultural Minorities	3
Semester Total Credits	18-19	Semester Total Credits	21
<b>Senior</b>			
<b>Fall</b>	<b>Cr.</b>	<b>Spring</b>	<b>Cr.</b>
ED 368 Curriculum & Methods in Secondary Subjects	4	ED 425 Student Teaching	12
General Education Ethics	3		
MA 309 Algebraic Structures or 303 <sup>2, c2</sup>	3		
MA 411 Senior Seminars (General Education Capstone) <sup>c2</sup>	3		
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3		
Semester Total Credits	16	Semester Total Credits	12
Total Credits For This Major: 136-137			

<sup>1</sup> This may be any history course except HI 209.

<sup>2</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>3</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).