

Mathematics Major with Education Concentration

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B.S. in Mathematics-Education Concentration - Curriculum Map 2018-2019 Catalog

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

Course	Cr.Comp	Course	Cr.Comp
FRESHMAN			
Fall		Spring	
ED 104 Foundations of Education	3	EN 102 Composition and Literature II	3
EN 101 Composition and Literature I	3	General Education Lab Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	4
General Education Lab Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	4	MA 122 Calculus II (General Education Math) ^{c1}	4
MA 121 Calculus I (General Education Math) ^{c1}	4	MA 241 Mathematical Computation and Modeling	3
PY 211 Introduction to Psychology	3	PY 220 Developmental Psychology	3
Fall Semester Total Cr.:	17	Spring Semester Total Cr.:	17
SOPHOMORE			
Fall		Spring	
ED 234 Learning and Teaching Strategies	4	ED 315 Special Needs Child	3
EN 201 World Literature I (General Education Literature)	3	EN 202 World Literature II	3
MA 223 Calculus III ^{c2}	4	MA 224 Differential Equations ^{c1}	4
MA 306 Discrete Mathematics ^{c2}	3	MA 310 Linear Algebra ^{c2}	3
PS 211 University Physics I	4	PS 212 University Physics II	4
Fall Semester Total Cr.:	18	Spring Semester Total Cr.:	17
JUNIOR			
Fall		Spring	
General Education Arts & Humanities/History (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	3	ED 363 Reading and Writing in the Content Area	4
MA 250 Communication in Mathematics	1	General Education History/Arts & Humanities (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	3
MA 303 Advanced Calculus I ^{2, c2} or 309 Algebraic Structures	3	Mathematics Elective	3
MA 311 Statistical Methodology ^{c2}	3	MA 304 Advanced Calculus II ³ or 312 Statistical Methodology II	3
Mathematics Elective	3	PY 352 Learning and Memory	4
PY 324 Adolescent Psychology	3	SO 214 Racial and Cultural Minorities	3
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3		
Fall Semester Total Cr.:	19	Spring Semester Total Cr.:	20
SENIOR			
Fall		Spring	
ED 368 Curriculum & Methods in Secondary Subjects	4	ED 425 Student Teaching	12
General Education Ethics (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	3		

General Education Leadership (http://catalog.norwich.edu/residentialprograms/catalog/generaleducationgoals)	1-3				
MA 309 Algebraic Structures ^{2, c2} or 303 Advanced Calculus I	3				
MA 411 Senior Seminars (General Education Capstone) ^{c2}	3				
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3				
Fall Semester Total Cr.:	17-19		Spring Semester Total Cr.:	12	
TOTAL CREDITS FOR THIS MAJOR: 137-139					

- 2 MA 303 and MA 309 alternate as fall semester courses; both courses are required. For years these courses are offered, see Course Descriptions.
- 3 MA 304 and MA 312 alternate as spring semester courses; one of the two courses is required.
- c1 Grade of C or higher required in 3 of the 4 courses.
- c2 Grade of C or higher in at least 6 Math courses at the 300/400 level (other than MA 360).