

Mathematics Major with Education Concentration

B.S. in Mathematics-Education Concentration - Curriculum Map 2019-2020 Catalog

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/residentialprograms/catalog/generaleducationgoals/#goal4naturalsciencetext) | 4 |
| General Education Lab Science (http://catalog.norwich.edu/residentialprograms/catalog/generaleducationgoals/#goal4naturalsciencetext) | 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/residentialprograms/catalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshumanitiestext) | 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/residentialprograms/catalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshur) | 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/residentialprograms/catalog/generaleducationgoals) | 3 | | |

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| 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).