## Secondary Mathematics Education Concentration Catalog Description

The concentration in Secondary Mathematics Education allows a flexible program providing a student with a path to graduate studies in mathematics or a career in industry, as well as all the mathematics and education courses required for certification as a secondary education teacher in mathematics.

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

| Prefix | Title | Credits |
| :---: | :---: | :---: |
| General Education |  |  |
| Area I: Communications |  |  |
| English Composition - Level 1 |  |  |
| ENGL 111G | Rhetoric and Composition | 4 |
| English Composition-Level 2 |  |  |
| Choose one fro | ing: | 3 |
| ENGL 203G | Business and Professional Communication | 3 |
| ENGL 211G | Writing in the Humanities and Social Sciences | 3 |
| ENGL 218G | Technical and Scientific Communication | 3 |
| ENGL 311G | Advanced Composition | 3 |
| ENGL 318G | Advanced Technical and Professional Communication | 3 |
| Oral Communication |  |  |
| Choose one from the following: |  | 3 |
| AXED 201G | Effective Leadership and Communication in Agricultural Organizations | 3 |
| COMM 253G | Public Speaking | 3 |
| COMM 265G | Principles of Human Communication | 3 |
| HON 265G | Principles of Human Communication Honors | 3 |

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| Prefix | Title | Credits |
| :---: | :---: | :---: |
| MATH 313 | Fundamentals of Algebra and Geometry I | 3 |
| MATH 316 | Calculus with Hands-on Applications | 3 |
| MATH 400 | Undergraduate Research | 1-3 |
| MATH 459 | Survey of Geometry | 3 |
| STAT 400 | Undergraduate Research | 1-3 |
| Non-Departmental Requirements (in addition to Gen.Ed/VWW) |  | 31 |
| C S 172 | Computer Science I | 4 |
| EDUC 315 | Multicultural Education | 3 |
| EDUC 381 | Secondary Field Experience | 3 |
| EDUC 462 | Teaching Mathematics at the Middle and High School Level | 3 |
| EDUC 471 | Secondary Student Teaching | 9 |
| EDUC 482 | Middle and High School Student Teaching Seminar | 3 |
| RDG 414 | Content Area Literacy | 3 |
| SPED 350 | Introduction to Special Education in a Diverse Society | 3 |
| Second Language Requirement: (not required) |  |  |
| Electives, to bring the total credits to 120 5 |  | 21-22 |
| Total Credits |  | 120 |
| Course List |  |  |
| MATH 191G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 191G first. <br> *This could increase the total number of credits for the degree |  |  |
| 2 See the General Education section of the catalog for a full list of courses. |  |  |
| See the Viewing a Wider World section of the catalog for a full list of courses. Note that one of the VWW requirements will be solidified using the 9 -credit hour rule with the EDUC courses that are required for the degree. |  |  |

4 MATH 401 Special Topics must be approved by the department for credit towards the major.

5 Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However, students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

Notes for Minor in Education: Students must apply to the Teacher Education Program before they can progress in the 400 level education courses. EDUC 315, EDUC 381, and SPED 350 are pre-requisites for TEP entrance. Students can apply for TEP during the semester in which they are completing the last of these pre-requisites. Students will also need to have declared the Minor in Secondary Education before applying to TEP.

## Second Language Requirement

For the Bachelor of Science with a major in Mathematics with a Secondary Mathematics Education Concentration, there is no second language requirement for the degree.


[^0]:    Area II: Mathematics

