

Program of Study
Bachelor of Arts in Mathematics – Secondary Teaching Option

The Bachelor of Arts in Mathematics – Secondary Teaching Option provides a broad mathematical foundation for teaching at the secondary level. Students entering as Mathematics majors should take MATH 151- Calculus I as soon as possible.

MAJOR REQUIREMENTS FOR SECONDARY MATHEMATICS TEACHING OPTION (42 credits)

Required Mathematics Courses

- MATH 141 Introductory Statistics (may also be fulfilled by completing PSYC 251)
- MATH 151 Calculus I (4 credits)
- MATH 152 Calculus II (4 credits)
- MATH 225 Introduction to Abstract Mathematics
- MATH 231 Linear Algebra
- MATH 251 Calculus III (4 credits)
- MATH 265 Mathematical Modeling
- MATH 310 History of Mathematics
- MATH 320 Geometry
- MATH 331 Modern Algebra
- MATH 341 Mathematical Probability
- MATH 351 Intermediate Analysis
- MATH 475 Issues and Trends in Math Education

Required Education Courses

- Orientation
 - ESEC 100 Introduction to Teaching
- Learners
 - ESEC 150 Development, Exceptionality, and Learning I**
 - ESEC 250 Development, Exceptionality, and Learning II
- Fundamentals
 - ESEC 282 Literacy in Content Areas
- Settings
 - ESEC 320 Education Environments/Practices
- Methodology
 - ESEC 385 Methods: Secondary
 - ESEC 386 Methods: Field Experience
- Systems
 - ESEC 450 Seminar: Educational Principles
- Practice
 - ESEC 460 Student Teaching
- Pedagogy (highly recommended but not required)
 - ESEC 387 Creating Social Contexts for Learning

** (course requires a minimum of one to three hours of field work in schools or service learning)

GENERAL EDUCATION REQUIREMENTS (minimum) 43 credits

- CS 140 and PHYS 241 are required for the major and may apply toward the Sciences/Mathematics component of the General Education requirements.
- Refer to the [Teacher Education Programs](#) in this catalog for courses that must be included in general education.

ELECTIVES

Select courses to reach a total of 120 credits for the degree.

DEGREE REQUIREMENTS

120 credits