

# Mathematics Major: Secondary Education

## Department of Mathematical Sciences

### MAJORS

- Data Science
- Mathematics

### MINORS

- Actuarial Science
- Computer Science
- Mathematics
- Statistics

### About the Department

Majors in the Department of Mathematical Sciences begin their studies with a core of courses that introduces the beauty and utility of pure mathematics, applied mathematics and statistics. They routinely work in partnership with faculty and other students to develop as professionals and to acquire skills necessary to succeed in a variety of future endeavors. We offer various flavors of a mathematics major: traditional, applied, statistics, actuarial science, computational and secondary education. Students have the opportunity to explore the various facets of the mathematical sciences in the core before committing to a particular direction in their upper-level work. Our B.S. in mathematics allows considerable flexibility so that students can design an individualized program which prepares them for graduate school in mathematics or for a variety of careers in business, government or industry. Students also sometimes choose to combine the mathematics major with a second major in another field of interest (e.g. geography, computer science, music, business) or with one or more minors. The major is sufficiently flexible to accommodate these without increasing the time to degree.

### Teacher Certification

The secondary education concentration of the mathematics major is offered jointly by the Department of Mathematical Sciences and the Secondary and Physical Education Department. It leads to Maryland certification for teaching mathematics in grades 7-12. The Maryland certificate qualifies graduates to teach mathematics in several different states in the U.S., including Delaware, New Jersey, New York and Virginia. Our coursework prepares the candidate to teach in accord with the NCTM and Common Core State Standards. There has been a high demand for recent graduates of this program, who have accepted teaching positions throughout the State of Maryland. Recent graduates have been awarded teaching fellowships, such as the Knowles Science Teaching Fellowship, and also have been accepted to graduate programs in mathematics education at universities such as Rutgers and SU.

### Other Opportunities at SU

Secondary education mathematics majors have recently participated in PATHWAYS, a National Science Foundation-funded research experience for undergraduates at Salisbury University. Undergraduates worked with mathematics and mathematics education faculty to engage in mathematics education research over a 10-week summer program. Secondary education math majors may also be eligible for a scholarship through the Robert Noyce Teacher Scholarship Program, an NSF-funded program at SU. The program encourages SU STEM majors to become teachers in high-



need schools through the use of first-year and sophomore school-based internships and junior and senior scholarships. Support for scholarship recipients continues post-graduation through support from mentor teachers and peer communities.

### Outline of Professional Education Coursework

#### Spring Semester Junior Year

- Teaching Literacy in the Content Areas
- Inclusive Instruction for Secondary Teachers
- Teaching Mathematics in Grades 7-12, Part I

#### Fall Semester Senior Year

- Classroom Management
- Teaching Mathematics in Grades 7-12, Part II

#### Spring Semester Senior Year

- Internship in Middle or High School Education

### CONTACT INFORMATION

For information on the Department of Mathematical Sciences:

**410-543-6471**

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*“A good teacher should understand and impress on his students the view that no problem whatever is completely exhausted.”*  
—George Pólya

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