

# MATHEMATICS, B.A.

The B.A. in Mathematics major at The College of St. Scholastica can prepare students for graduate study in math & related STEM disciplines or for a career in math education or quantitative fields across a range of industries. The major strongly emphasizes applying mathematical skills & techniques to real-world situations through the use of course-based projects and a senior thesis. In their math coursework, students will also learn programming skills and use appropriate technology tools to enhance their understanding of mathematics and to solve problems. Math majors will also develop their written and oral communication skills so they can effectively communicate sound mathematical reasoning and understanding throughout their coursework and projects.

## Contact information

math@css.edu

## Learning Outcomes

Upon completion of a Mathematics degree at CSS, students will be able to:

1. Fluently use the basic computational math techniques of Calculus, Discrete Math, Linear Algebra, and Statistics.
2. Apply mathematical knowledge to a variety of real-world problems.
3. Effectively communicate sound mathematical reasoning.
4. Use appropriate technology to enhance their understanding of math, their communication of mathematical ideas, and their ability to apply mathematics to solve problems.

## Requirements

Students must achieve the following program requirements for all courses listed under Program Requirements and Program Required Courses for the Mathematics Major.

### Program Requirements

**Major Credits: 46**

**Major Residency Credits: 16**

**Minimum GPA: 2.0**

**Minimum Grade: C**

### Program Required Courses

Code	Title	Credits
MTH 2221	Calculus I	4
MTH 2222	Calculus II	4
MTH 2401	Discrete Mathematics I	4
MTH 2442	Introduction to Data Analysis and Applied Statistics	4
MTH 3321	Multivariable Calculus	4
MTH 3322	Linear Algebra	4
MTH 4332	Abstract Algebra I	4
MTH 4411	Probability and Statistics I	4
MTH 4501	Senior Seminar I	1
MTH 4502	Senior Seminar II	1
Twelve additional upper-division MTH credits		12
<b>Total Credits</b>		<b>46</b>

## Degree Requirements

To graduate from The College of St. Scholastica, baccalaureate students must meet the following minimum degree requirements.

**Total Credits: 128**

**Upper Division Credits: 42**

**Residency Requirement: 32**

**Minimum GPA: 2.0**