



MERRIMACK COLLEGE

SCHOOL OF SCIENCE & ENGINEERING



MATHEMATICS

Mathematics majors at Merrimack College build knowledge in a diverse range of both abstract and applied topics. Our mathematics majors develop the ability to explore and conjecture by recognizing and generalizing patterns; apply mathematical concepts and techniques to model situations and solve the resulting real world problems; and use technology as an effective tool to investigate, understand, and apply mathematics.

ENGAGING COURSEWORK

A dynamic curriculum builds strong practical knowledge from introductory classes to specialized coursework.

In addition to required major coursework, students are able to choose mathematics electives in areas of personal interest. Those considering graduate study are urged to take additional math electives in a variety of topics, as well as two semesters of a natural science.

A selection of possible elective courses includes:

- MTH 2527 Probability and Statistics I
- MTH 2644 Combinatorics and Graph Theory
- MTH 2650 Knot Theory
- MTH 3701 Modeling and Simulation

REWARDING CAREER PATHS

The Mathematics major at Merrimack College prepares students for a wide range of opportunities, including careers in education, government, industry, and further study in graduate school. Merrimack mathematics graduates are employed by actuarial firms, insurance companies, government agencies, defense contractors, high tech companies, and financial institutions such as Milliman, Liberty Mutual, the Social Security Administration, Raytheon, Philips Medical Systems, SafeHarbor, and Wincor Nixdorf.

Several recent graduates have earned or are pursuing master's degrees or Ph.D.s in fields such as mathematics, statistics, and computer science. Merrimack mathematics graduates are also employed as high school, middle school and elementary school teachers, and as college professors at both public and private schools and colleges.

PROGRAM HIGHLIGHTS

Research, Internships, and Volunteer Opportunities

- Math majors have participated in summer research experiences on campus and around the country in mathematics and related fields.
- Recent students have participated in internships at local investment companies, actuarial firms, software companies, and manufacturing firms.
- Our majors volunteer to help elementary school students with math and science projects in after school programs such as the Lawrence Math & Science Partnership.

Teaching Mathematics

Students who are preparing for careers as math teachers complete a double-major in mathematics and education and take the state licensure examinations to obtain certification in secondary, middle school or elementary education. These students take courses from Merrimack's Department of Education in addition to their mathematics courses, and perform a semester of student teaching.

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QUESTIONS?

Contact **Michael Bradley, Professor and Department Co-Chair**, at:

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