



MONMOUTH
UNIVERSITY

BACHELOR OF SCIENCE: MATHEMATICS



Mathematics describes everything around us. Every object, force, and pattern can be described by the logic and language of mathematics. Students pursuing Monmouth's Bachelor of Science in Mathematics will become linguists in the fundamental language of the universe.

Employers are looking for people who can think critically and use math to solve problems efficiently, and a degree in mathematics prepares you to do this.

Math students work in small groups, attacking complex problems that reveal principal ideas. Monmouth has an active math department where students can delve into inquiries on special topics, cooperative education opportunities, advanced studies, and more.

RELATED PROGRAMS:

- **Minor in Mathematics**
- **Minor in Statistics**
- **Five-Year BS/MSEd programs**

OUTCOMES

Monmouth University's mathematics graduates move on to careers in the fields of technology, education, business, government, and the arts, working as data analysts, actuaries, engineers, computer scientists, physicists, and math teachers, among other professions. Our graduates have gone on to work at Lockheed Martin, Prudential Finance, Blue Cross Blue Shield, Johnson & Johnson, and the federal government.

Monmouth students have found graduate placements in programs at schools such as Villanova University, Boston College, Rutgers University, and the University of Virginia, while others have gone on to medical or law school.

MATH AND EDUCATION

Many math graduates are responding to the demand for mathematics teachers and find employment in the field of education. Monmouth offers a baccalaureate program in mathematics and education in which students receive a New Jersey Subject Area Certification in Mathematics, a BS in Education, and a BS in Mathematics. Future teachers benefit from learning mathematical skills in the classroom with faculty who are themselves dedicated teachers.

STATISTICS CONCENTRATION

The concentration in statistics attracts many students entering business and industry. Graduates who wish to pursue advanced degrees will benefit from the program's broad focus on pure and applied mathematics and statistics—a necessary foundation for a master's or doctoral degree in these fields.

OPPORTUNITY

EXPERIENCE YOUR EDUCATION

Many students assist local, real-world clients within a mathematical modeling course. A client's mathematical problem is studied, simplified, and abstracted to the point where mathematical tools can be applied. Local industries, organizations, schools, government agencies, researchers, and academic departments on campus rely on the problem-solving skills of Monmouth's math majors.

Students interested in statistics can enroll in a statistical consulting course. During their course work, these students provide data analysis for both private and public agencies. Statistical consulting prepares students for jobs in agencies that employ teams of data analysts to assist with logistics and customer service.

Mathematics students have participated in summer internships at corporations including Barnes & Noble, PepsiCo, JPMorgan Chase, and Hershey. Others have participated in the School of Science Summer Research Program, which grants undergraduate students the opportunity to work in partnership with faculty.



STUDENT CLUBS

The Math Club is a student-run organization that seeks to bring more awareness to the math major and math department at Monmouth. The club extends invitations to numerous guest speakers who articulate the importance of math in everyday life and give examples of careers that are math-related.

Mathematics majors at Monmouth also have an extracurricular advantage with the Mathematics Learning Center. Here, they have the opportunity to reinforce their own learning by tutoring students in lower-level math classes.

Mathematics students can take part in the School of Science's peer mentoring program as well. Mentors help new students adjust to life at Monmouth and the School of Science by meeting with their fellow students throughout the semester, both individually and in group activities. Mentors assist students in developing the critical thinking skills that will enable them to better solve problems.

FACILITIES AND TECHNOLOGY

Computers can be used as a mathematical laboratory, enabling students to perform complex experiments and make meaningful conjectures. All mathematics students learn to use computer algebra systems, and technology is integrated into most math courses. Students gain exposure to mathematical and statistical software, and smart classroom devices are also employed. Students may enroll in a mathematics programming course, also learning basic coding and programming computational software.

