Why Study Mathematics?
In our increasingly technological society, a degree in mathematics can offer you many career opportunities. Some of the options include:

- **Actuaries** use risk analysis to determine rates for insurance companies and retirement programs.
- **Statisticians** are employed by a wide variety of industries to analyze data and use it to make forecasts and decisions.
- **Government agencies**, as well as increasing number of **e-commerce software developers**, employ mathematicians to develop and break codes to deliver and receive sensitive information.
- **Many industries** employ mathematicians to find the most efficient way to allocate physical and human resources.
- **Software companies** greatly value the logical thinking and problem solving abilities you will develop as a mathematics student.
- **Many mathematicians** become **teachers** and **professors** to students of all ages.

A degree in mathematics also provides a strong foundation in problem solving and logical thinking, which can lead to further study in a variety of fields. These include:


---

For more information, please contact:

Marshall University
Mathematics Department
Smith Hall, Room 523
One John Marshall Drive
Huntington, WV 25755
(304) 696-6482
math@marshall.edu
www.marshall.edu/math
Mathematics at Marshall . . .

The Department of Mathematics at Marshall University is housed in the College of Science. The department offers programs leading to a Bachelor of Science Degree and Masters of Arts Degree in Mathematics. At the undergraduate level, you can choose one of two majors...or both! The department also offers a minor in math. Employers find graduates with majors or minors in math highly desirable.

The department strives to maintain an active relationship between the faculty and students. The department proudly supports a chapter of Pi Mu Epsilon, the national mathematics honorary society. During the meetings, members socialize and discuss areas of mathematics they may not see in their courses. Groups of students travel to attend regional, national, and international conferences where they may present their own research projects. In addition, the department supports many social events involving faculty and students, to interact outside the classroom. The department also presents cash awards and honors each spring to the most outstanding mathematics students.

A Major in Mathematics

The Math Department at Marshall University proudly offers two majors:

- Mathematics
- Applied Mathematics

All math majors take a calculus sequence, introduction to mathematical proofs, and linear algebra. Both mathematics majors and applied mathematics majors complete two sequences out of advanced calculus, complex analysis, differential equations, modern algebra, numerical analysis, probability and statistics, and topology. Both majors require a course in computer programming language. The capstone of each major is the senior seminar. Beyond this, majors choose additional courses tailored to their future employment or educational goals, along with the general education requirements of the College of Science.

A Minor in Mathematics

A minor in mathematics is available to all students at Marshall University. Students completing the minor may find expanded job opportunities in business, education, government, and industry. A minor can also be helpful to students preparing for professional schools in the health sciences. A solid background in math has been proven to be quite helpful on entry exams to such schools. The minor can also be used as a component of a student’s preparation for law school.

The minor consists of two calculus courses, a mathematical proofs course, and one more course that applies to either math major.