



## Mathematics

---

Mathematics includes a broad spectrum of fields ranging from the traditional areas of pure mathematics and extending to areas of applied mathematics. Mathematics majors develop analytical skills and the ability to work in a problem solving environment, both of which are highly valued by employers.

### Possible Immediate Job Titles with a Bachelor's Degree

#### Operations Research Analyst

Operations research analysts use advanced mathematical models to help organizations and businesses solve problems and make better decisions. To become an Operations Research Analyst, a large amount of coursework in mathematics, along with computer science, is necessary, as the job requires quantitative analysis and the ability to use computer programming software to perform this analysis.

#### Actuary

Actuaries use mathematics and statistical models to predict whether or not a risk will occur, and the financial costs of that risk if it does occur. To become an Actuary, a large amount of coursework in economics, applied statistics, and corporate finance is necessary, as well as the ability to pass a certain number of [Actuarial exams](#), two to three of which are to be taken during one's undergraduate career.

### Possible Job Titles with an Advanced Degree

#### Statistician – Master's Degree Required

Statisticians utilize statistical methods to examine data from a broad spectrum of fields. To become a statistician, extensive coursework in mathematics and statistics, such as upper-division calculus, statistical methods, mathematical modeling, and probability theory is necessary.

#### Mathematician – Doctorate Degree Required

Mathematicians use their knowledge of advanced mathematics to create models that can be used to solve practical problems in many different fields. To become a mathematician, extensive coursework in mathematics, along with knowledge of computer programming software, is necessary.

*This is not an exhaustive list of occupations and it is highly recommended you conduct informational interviews and engage in experiential learning activities to help you broaden your interest areas within your major. Please contact the Career Design Center and speak to a Career Coach for further discussion; 512-471-6700 Painter Hall (PAI) 5.03.*



## Online Resources

[What can I do with this major?](#)

[Why choose a mathematics related profession?](#)

[Is a mathematics related profession best for you? Explore Focus2.](#)

## Job Posting Websites

### [Handshake](#)

*Handshake is Career Services' primary job posting site, and all students should have an account to not only apply for jobs and internships, but also to stay current on upcoming events, employer information sessions and other opportunities. Create an account!*

[Vault](#)

[Jobs in Finance](#)

[Going Global](#)

[Be an Actuary](#)

[Dice](#)

[National Council of Teachers of Mathematics](#)

[MAA Math Classifieds](#)

[Jobs in the Federal Government](#)

[Math Jobs](#)

## Professional Associations

[American Mathematical Society\\*](#)

[Association for Women in Mathematics](#)

[Mathematical Association of America\\*](#)

[Society for Industrial and Applied Mathematics\\*](#)

\*Association Includes a Job Database

## Additional Resources

[American Statistical Association](#)

[National Council of Teachers of Mathematics](#)

[Society of Actuaries](#)

[National Academy of Sciences](#)