

# What you can do with your Mathematics major



As a Mathematics major, you will study the theory and complex relationships between numbers, structures, and patterns which will provide you knowledge and practice with finding better, faster and more innovative solutions. The course of study integrates mathematical literacy, theoretical and applied research, and mathematical communication. You will develop the essential skills of logic, analysis, abstract thinking, and problem-solving. Critically important to many fields today, this practice can support a wide variety of businesses, including engineering, medicine, banking, logistics, technology, cryptology, government, transportation, research, insurance, and actuarial science.

According to the [Bureau of Labor Statistics](#), employment of Math majors is projected to grow 31% from 2021 to 2031, among the fastest for all occupations. As artificial intelligence develops, data literacy and digital data storage needs increase, and more people and organizations conduct business online, businesses will increasingly rely on mathematicians to analyze and synthesize large amounts of information and data. Mathematicians' well-developed skills in logical thinking, problem solving, and model development extract meaningful conclusions that help organizations and communities improve business processes, and design new products and services that enhance our quality of life.

## Essential Skills & Characteristics to develop and highlight:



Passion for solving problems



Mathematical and Deductive Reasoning



Attention to detail and organization



Written and Oral Communications



Personal Management



Data analysis



Digital Literacy



Teamwork

## How To Get Started:

- [Assess](#) your personal strengths & preferences
- [Research opportunities](#): online/in-person
- [Expand your mathematical & technical network and professional brand](#)
- [Get an internship/relevant](#) work experience
- [Join a professional technical/actuarial organization](#)
- [Connect with professionals](#) through career conversations & job shadowing

## Chart Your Path Forward with the [Career Success Center](#)

### [Activate Your Handshake Account](#)

for events, coaching appointments and connections to jobs, internships, employer & alumni networking & more!  
[www.wcsu.edu/handshake](http://www.wcsu.edu/handshake)

### [Explore Career Communities](#)

to discover a wide variety of fields where you can turn your Math major into success.

### [Get Career & Internship Advising](#)

from the Career Success Center to make a plan, whether you're a first-year student or about to graduate

# Put your Mathematics major to **WORK**

## Common Alumni Job Titles:

- Actuary
- Computer System Analyst
- Financial Analyst
- Nuclear Engineer
- Survey Researcher
- Computer Programmer
- Physicist
- Statistician

## Employers of Mathematics Majors:

- WCSU
- Danbury Public Schools
- UConn
- Newtown High School
- Newtown Savings Bank
- SUNY Orange
- Deloitte
- Oliver Wyman
- Robotics and Beyond
- MOVIA Robotics

## Recent Mathematics Alumni

### Employment Sector

- 19 % Educational Services
- 14 % Administrative Support
- 12 % Retail Trade
- 8 % Construction
- 8 % Finance and Insurance
- 5 % Transportation and Warehousing
- 5 % Health Care and Social Assistance
- 5 % Information

### Live & Work

- 36 % Connecticut
- 20 % Middle Atlantic
- 17 % South Atlantic
- 12 % New England Balance
- 4 % East North Central
- 3 % Pacific
- 3 % Mountain
- 3 % West South Central



[Tracy Hoffman](#)

B.A. Mathematics, Class of 1992  
Managing Director at Risk Strategies Company.

## Informational & Job Websites

- <https://wcsu.joinhandshake.com/login>
- <https://www.mathjobs.org/jobs/jobs>
- <http://www.mathclassifieds.org/>
- <https://www.all-acad.com/jobs/Mathematics-Statistics/>
- <http://www.ams.org/>
- <http://www.asee.org/>
- <http://www.amstat.org/>
- <http://www.maa.org/>
- <http://www.swe.org/>
- <http://www.siam.org/>
- <https://www.soa.org/member/>
- <http://www.nctm.org/>
- <https://www.getmathematicsjobs.com/>
- <https://www.learnhowtobecome.org/careers-in-mathematics/>
- <https://www.teachersoftomorrow.org/become-a-teacher/math>



[Jordan Marquis](#)

B.A. Mathematics, Class of 2015  
*Global ERP PMO Sr. Manager, Otis Elevator Co.*

"Majoring in Mathematics at WCSU gave me a great foundation in problem solving and how to use facts and data to make key decisions. I learned to take a steady, calm approach to new problems-and how to solve and implement solutions in a very short timeline. Additionally, statistics courses at WCSU helped me be able to measure how successful the solutions were that I suggested/implemented."

## Career Communities for Mathematics Majors

The Career Success Center has seven Career Communities to connect you with career advising, resources and programs. Here are a few suggestions on where Mathematics majors can start.

Not inspired by these options? Visit our website at [www.wcsu.edu/careersuccess/career-communities/](http://www.wcsu.edu/careersuccess/career-communities/) to view more.

- [Financial, Business and Consulting Services](#)
- [Government, Public Policy, Law and Non-Profit](#)
- [Healthcare, Wellness and Life Sciences](#)
- [Technology, Environmental & Physical Sciences](#)