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
- Personal Management
- Mathematical and Deductive Reasoning
- Data analysis
- Attention to detail and organization
- Digital Literacy
- Written and Oral Communications
- Teamwork

How To Get Started:

- Assess your personal strengths & preferences
- Get an internship/relevant work experience
- Research opportunities: online/in-person
- Join a professional technical/actuarial organization
- Expand your mathematical & technical network and professional brand
- 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

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

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

"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."

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

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.teachersoftomorrow.org/become-a-teacher/math

Career Communities for Mathematics Majors

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

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/ to view more.