

# WHAT CAN I DO WITH MY MAJOR?

## MATHEMATICS

Mathematics explores patterns, numbers, shapes, and relationships through logic and abstraction to solve problems and understand fundamental principles in various fields such as science, engineering, and business.

### COMMON JOB TITLES \* additional education or certification required post graduation

#### ENTRY & MID LEVEL POSITIONS

Actuary \*  
Computer Systems Analyst  
Data Scientist\*  
Financial Market Analyst  
Statistician\*  
Math Teacher/Professor\*  
Statistical Programmer  
Data Mining Analyst\*

Software Engineer\*  
Underwriter\*  
Quantitative Analyst  
Mathematician\*  
Technical/Statistical Consultant  
Operations Research Analyst  
Business Intelligence Analyst  
Investment Analyst\*

### AREAS OF EMPLOYMENT: WHERE DO MATHEMATICS MAJORS TYPICALLY WORK?

**Tech & Computer Companies:** Google, Intel, IBM

**Investment Firms:** Fidelity Investments, Charles Schwab, Asset Strategies

**Insurance Companies:** Mutual of Omaha, Woodmen Life, Physicians Mutual

**Manufacturing & Logistics Companies:** Union Pacific, Valmont, Werner

**Government:** NE Dept. of Labor, NE Dept. of Transportation

**Schools & Universities:** Omaha Public Schools, UNO, UNL

**Engineering Firms:** HDR, Inc, Olsson, Alvine Engineering

**Healthcare Companies:** BD Health, Nebraska Medicine, Methodist

**Nonprofit Organizations:** Omaha Community Foundation, NE Humane Society

**Energy & Utility Companies:** OPPD, MUD, Tenaska

**Consulting Firms:** Bridge & Trust, Deloitte, Fahrenheit Advisors

**Banks:** FNBO, Pinnacle Bank, U.S Bank

### IMPORTANT QUALITIES:

#### Transferable Skills Gained:

Problem-Solving & Reasoning  
Attention to Detail  
Critical Thinking Skills  
Analytical Skills  
Abstract Thinking

#### Concrete Skills Gained:

MATLAB  
R  
Python  
SAS & SPSS  
Tableau

### HOW TO DEVELOP YOUR SKILLS :

Join a **UNO Mathematics Student Organization** to connect with other students and faculty

Explore **UNO Mathematics Student Opportunities** to receive hands on experience & apply your learning outside of the classroom

Volunteer or work in the **UNO MatheMaverick Zone** to help other students with their work and to increase your leadership skills

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## MATHEMATICS

### MAJOR + MINOR SPECIALIZATION: HOW CAN I SPECIALIZE IN SOMETHING BEFORE I GRADUATE?

Mathematics + Cybersecurity minor = Cryptanalyst

\* additional education or certification required post graduation

Mathematics + Business Analytics minor = Financial/Investment/Business Intelligence Analyst

Mathematics + Management Information Systems minor = Computer Systems Analyst/Technical Consultant

### OCCUPATIONAL OUTLOOK:

Mathematicians & Statisticians

Financial Analysts

Actuaries

Systems Analysts

Operations Research Analysts

Data Scientists

### EMPLOYMENT OPPORTUNITIES:

Check out daily job postings on **Handshake** related to accounting jobs, internships, and opportunities to boost your student experience

### ADDITIONAL EDUCATION:

A **Masters degree** or **Doctoral Degree** may be beneficial or required after graduation depending on your desired career path. Advanced degrees offer opportunities for research, specialization, and development

#### More information:

UNO Graduate Programs in Mathematics

UNL Graduate Programs in Mathematics

### OTHER RESOURCES :

UNO Department of Mathematical & Statistical Sciences

Career Exploration in Career Services

U.S. Bureau of Labor Statistics: Occupational Outlook Handbook


### NEED SOME EXTRA HELP?


Book an appointment with Career Services

Book an appointment with your Advisor

### Career Services

 EAB 113

 6001 Dodge Street, Omaha, NE 68182

 402.554.3672

 [careers.unomaha.edu](https://careers.unomaha.edu)

 [careers@unomaha.edu](mailto:careers@unomaha.edu)

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