



COLLEGE OF ARTS & SCIENCES

MATHEMATICAL SCIENCES

Mathematical Sciences is a broad discipline that combines traditional branches of math—algebra, geometry and calculus—and newer fields, such as **statistics**, **actuarial science** and **data science**. It's a major that creates analytical problem solvers who excel in graduate studies and high-earning careers.

DEPARTMENT STRENGTHS

- **Dedicated Support.** Small class sizes allow faculty to provide personalized learning and mentorship experiences to students.
- **Esteemed Faculty & Research.** The department boasts internationally renowned faculty and cutting-edge research in numerous areas of mathematics.
- **Program Flexibility.** The department offers students multiple options, including second major, Accelerated BS/MS and minor programs, as well as three elective concentrations within the major.

SAMPLE CURRICULUM

Core Courses

- MATH 1910 Calculus I
- CHEM 1110/1111 General Chemistry I & Lab
- CHEM 1120/1121 General Chemistry II & Lab

Additional Required Courses*

- MATH 1920 Calculus II
- MATH 2110 Calculus III
- MATH 2702 Intro to Proofs & Fundamental Math
- MATH 2120 Differential Equations
- MATH 3242 Intro to Linear Algebra
- COMP 4001 CS1: Intro to Python Programming

DEGREE OPTIONS

- BS in Mathematical Sciences
 - Actuarial Science
 - Data Science
 - Statistics
 - Honors in Mathematical Sciences
- Accelerated BS/MS in Mathematical Sciences
- MS in Mathematical Sciences
 - Applied Mathematics
 - Mathematics
 - Statistics
 - Teaching of Mathematics
- PhD in Mathematical Sciences
 - Applied Statistics
 - Mathematics

MINORS & CERTIFICATES

- Mathematical Sciences Minor
- Teaching of Mathematics Graduate Certificate

ADDITIONAL OPPORTUNITIES

- The Cantor Sect Undergraduate Club
- Internships & Research Groups
- Seminars & Colloquia
- Study Abroad

MATHEMATICAL SCIENCES

MAJOR FACT SHEET

BY THE NUMBERS (Spring 2024)

Student Enrollment

123

Total

77

Undergraduate

46

Graduate

Number of Minors

7

Total

WHO YOU ARE

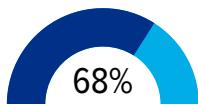
Personality

- Analytical
- Decisive
- Focused
- Methodical
- Objective
- Precise

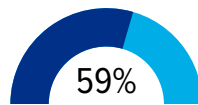
Interests & Hobbies

- 3D Modeling
- Architecture
- Astronomy
- Coding & Programming
- Origami
- Puzzles & Logic Games

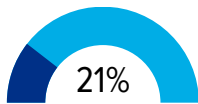
Student Demographics



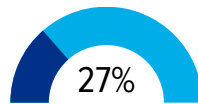
Male



Under 25



Pell Grant



First Gen

Degrees Awarded

28

Total

12 Bachelor's

0 GRCT

4

Master's

7

Doctorate

Career Outcomes[‡]

\$63K

Avg Expected Salary
First Destination

\$63K

Avg Annual Salary
1-3 Years Post-Grad

74%

Employed in TN

68%

Employed in Memphis

TN Employment Outlook

20.8%

10-Year Job Growth

333

Avg Annual Job Openings

Faculty Employed

3:1

Student-Faculty Ratio[†]

39

Full-Time

0

Part-Time

25

Grad Asst

64

Total

CAREER OPTIONS

Job Titles

- Actuary
- Biostatistician
- Cryptologist
- Data Scientist
- Economist
- Financial Analyst
- Image Scientist
- Research Programmer
- Risk Analyst
- Software Developer

Industries

- Business
- Consulting
- Finance
- Government
- Technology

WHAT YOU'LL LEARN

Core Skills

- Advanced Numeracy
- Data & Statistical Analysis
- Experimental Design
- Mathematical Methods
- Modeling Complex Systems
- Programming Languages

Transferable Skills

- Effective Communication
- Organization
- Pattern Recognition
- Problem Solving
- Quantitative Reasoning
- Teamwork

[†] Calculated based on the number of student majors and the number of full-time faculty.

[‡] Based on self-reported post-graduation outcomes of UofM students who have earned a Bachelor's degree in the last ten years.