## Choose UMSL

## Mathematics BA

This degree provides a well-rounded liberal education in addition to developing the analytic and technical skills necessary for graduate study, as well as other career opportunities. It is more flexible than the BS degree, so it may be a better option if you are interested in a double major with another program or wish to combine a mathematics degree with a minor. UMSL Faculty in Mathematics and Statistics have created sequences of courses dedicated to helping you develop the skills applicable to the career path you choose.

## Career Outlook

Mathematicians and statisticians solve real-world problems by applying mathematical and statistical models in industry, academia, and government. Careers in mathematics and statistics are consistently among the top-rated careers in terms of job satisfaction, and job prospects are projected to be very good over the next decade.
Our graduates have gone on to be educators, to work for governmental agencies like the NGA and NSA, to work in the insurance industry in companies like RGA, and to work at top local companies like Boeing, Ameren, Centene, and Anheuser-Busch.

## Future Career Options

- Data Scientist
- Statistician
- Data Analyst
- Actuary
- High School Teacher
- College Professor
- Industrial Mathematician
- Cryptographer
- Geospatial Analyst
- Financial Analyst
- Business Analyst
- Biomedical Researcher
- Mathematical Researcher
- Mathematical Consultant


## Skills Developed <br> by Degree Completion

- Apply critical-thinking and problemsolving skills to real-world problems
- Analyze data to make well-informed decisions
- Apply mathematical or statistical models to make decisions
- Clearly communicate technical ideas
- Read, understand, and assess the veracity of mathematical arguments and proofs

Successful alumni have gone on to fulfill many of the opportunities above. Additional possibilities are taken from the Bureau of Labor Statistics.
Contact an advisor to discuss additional future career options.

College of Arts and Sciences
Department of Mathematics and Statistics
311 Express Scripts Hall
314-516-6355
umsl.edu/mathstats

## Academic Advising

303 Lucas Hall 314-516-5501
artscience@umsl.edu
umsl.edu/cas/advising

## Bachelor of Arts in Mathematics



## 2023-2024 <br> 4-YEAR <br> ACADEMIC MAP

This is a sample academic map for the courses to take each academic semester/session. This map is not a substitute for academic advisement. Contact your advisor when making final selections.

MATH 1320: Introduction to Probability and Statistics (3) MATH 1900: Analytic Geometry and Calculus II (5) CMP SCI 1250: Introduction to Computing (3)
GEN ED EXPLORE: Social Sciences (3)
GEN ED CORE: US History \& Government (3)

FALL SEMESTER (16 credit hours)
2000: Analytic Geometry and Calculus III (5)
3vo.Foundations of Mathematics (3)

Foreign Language 1001 (5)
SPRING SEMESTER (14 credit hours)
MATH 2020: Introduction to Differential Equations (3)
MATH 2450: Elementary Linear Algebra (3)
GEN ED EXPLORE: Social Sciences (3)
Foreign Language 1002 (5)

FALL SEMESTER ( 15 credit hours)
ENGL 3100: Junior-Level Writing (3)
MATH 4400: Introduction to Abstract Algebra I (3)
Foreign Language 2101 (3)
s and Fine Arts (3)

SPRING SEMESTER ( 15 credit hours)
MATH 4100: Real Analysis I (3)
Cultural Diversity Requirement (3)
2000-level Related Area Requirement (3)
Elective or Minor (6)

FALL SEMESTER (15 credit hours)
MATH: 4000+ level course (3)
2000-level Related Area Requirement (3)
Elective or minor (3)

SPRING SEMESTER (13 credit hours)
MATH 4000-level course (3)

Elective or Minor (7)
Ready to be an UMSL Triton? Apply today.

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