

Choose
UMSL

And your major

Mathematics MA

Mathematics is the universal language of science. In addition, it permeates nearly every aspect of life in the modern world. This MA program delivers a comprehensive graduate curriculum in mathematics and statistics. Students acquire an excellent command of the fundamental tools in pure and applied mathematics, develop abstract reasoning and improve their problem-solving abilities and analytical skills. Graduates enter industry careers as applied mathematicians or statisticians, pursue teaching careers at high-school or junior college level or continue their education in a PhD program. Our faculty are committed to excellence in both teaching and research, and provide personalized mentoring. All program courses may be completed in the evening.

Career Outlook

Graduates from our program are well-prepared for a broad range of careers and opportunities in theoretical mathematics, applied mathematics, mathematics education, or statistics. Employers place a high value on the advanced mathematics and statistics degrees from UMSL and routinely praise our graduates as excellent problem solvers and outstanding critical thinkers. Our alumni are employed in a wide range of major industries, work for government agencies or hold teaching positions at both local and national level. The site CareerCast.com, ranks the mathematician profession amongst the 10 Best Jobs of 2019, with a projecting growth of over 30 percent.

Future Career Options

- Data scientist
- Data analyst
- Business analyst
- Applied mathematician
- Mathematical modeler
- Statistician
- High school teacher
- College teacher
- Cryptographer
- Investment analyst

Skills developed through degree completion

- Write clear, precise, and logically consistent multi-step proofs
- Demonstrate a solid understanding of core concepts in mathematics/statistics and the ability to communicate using rigorous mathematical language
- Interpret, formulate and solve applied problems
- Communicate effectively their knowledge of mathematics/statistics to their students

2-YEAR ACADEMIC MAP

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.

MA in Mathematics

Year 1 FALL SEMESTER (9 credit hours)

MATH 4100: Real Analysis I (3)

MATH 4160: Complex Analysis I (3)

MATH Elective (3)

SPRING SEMESTER (9 credit hours)

MATH 4450: Linear Algebra (3)

MATH Elective (3)

MATH Elective (3)

Year 2 FALL SEMESTER (6 credit hours)

MATH Elective (3)

MATH Elective (3)

SPRING SEMESTER (6 credit hours)

MATH Elective (3)

MATH Elective (3)

Degree completed!



2023-2024 2-YEAR 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.

- Apply for Graduation

Don't forget that students should apply for graduation the semester that you intend to graduate, so apply prior to the deadline!



Ready to be
an UMSL Triton?
Apply today.

[umsl.edu](https://www.umsl.edu)

888-GO-2-UMSL

314-516-5451

admissions.umsl.edu