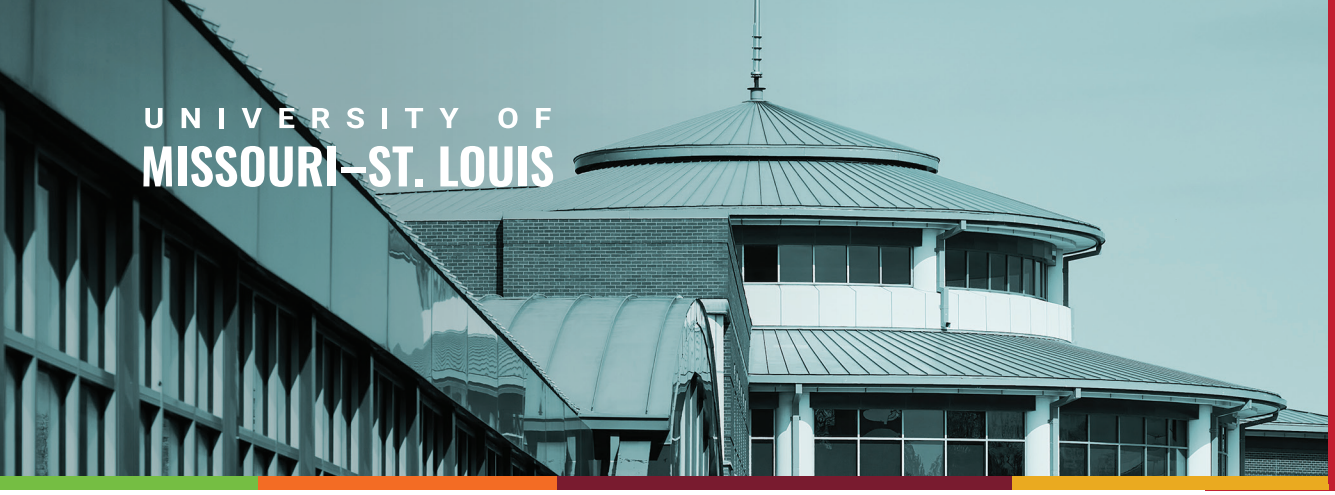

2-YEAR
ACADEMIC
MAP

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 the 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 degree 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 the local and national level. According to the US Bureau of Labor Statistics, the median annual salary for math/stats professionals was $104,860 in 2022. Employment in this field is projected to grow by 30% before 2032.

Future Career Options

- Applied Mathematician
- Business Analyst
- College Teacher
- Cryptographer
- Data Analyst
- Data Scientist
- High School Teacher
- Investment Analyst
- Mathematical Modeler
- Statistician

Skills Developed By 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

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.

UMSL | Arts and Sciences
University of Missouri–St. Louis

College of Arts and Sciences
Department of Mathematics, Physics, Astronomy, and Statistics
311 Express Scripts Hall (ESH)
314-516-6355
umsl.edu/mpas

Academic Advising
311 Express Scripts Hall (ESH)
314-516-6355
mathstats@umsl.edu

IT STARTS **RIGHT NOW**

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 one year prior to the intended graduation date, so apply prior to the deadline.

umsl.edu

888-GO-2-UMSL
314-516-5451
umsl.edu/gradschool

2024-2025 2-YEAR ACADEMIC MAP

Master of Arts in Mathematics

Check once completed

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)

Last updated May 2024