MASTER OF SCIENCE IN APPLIED MATHEMATICS

The Master of Science in Applied Mathematics welcomes students with a strong undergraduate background in mathematics or a related field, such as computer science, engineering, physics, finance, economics, or certain social sciences. The Master of Science in Applied Mathematics is designed to prepare students to handle a variety of mathematical tools that are used in the workforce such as statistical methods, numerical methods, modeling, and financial mathematics.

The MS in Applied Mathematics has four required courses:

Code	Title	Credits
MATH 5401	Introduction to Applied Mathematics	3
MATH 5417	Applied Statistics I	3
MATH 5418	Applied Statistics II	3
MATH 6532	Partial Differential Equations	3

A student may choose six electives among the courses offered for the Master of Science in Mathematics. To encourage interdisciplinary connections, the Master of Science in Applied Mathematics allows students to take up to two courses from a list of approved courses from the MS programs in Data Science, Data Analytics or Finance. Students should speak directly to the MS in Applied Mathematics program director to discuss viable course options.

Typically in the final semester, students are required to complete a capstone consisting of a project or an oral or written exposition of mathematics, in consultation with a faculty advisor. Capstones are generally associated with a course the student is taking, though it may be associated with an independent study. The faculty advisor may or may not be the instructor of the associated course. Each student, in collaboration with their advisor, will develop a proposal in advance for their capstone and secure the necessary approvals to proceed.