

# MATHEMATICS (M.S.)

<https://ceps.unh.edu/mathematics-statistics/program/ms/mathematics>

## Description

The mission of the Mathematics and Statistics program is twofold: to prepare students for a variety of exciting and rewarding career opportunities in business, industry, government and the teaching professions; and to provide deep and significant exposure to the mathematical sciences.

## Admission Requirement

Applicants for the M.S. and Ph.D. degrees must have completed significant undergraduate coursework in mathematics, preferably in algebra, analysis, and topology.

## Requirements

### M.S. Degree Requirements

This program requires **30 credit hours**, consisting of at least 10 semester courses approved by the department and chosen from MATH courses numbered MATH 801- MATH #899, MATH 931-MATH 978 and IAM courses IAM 830-IAM 962. The following stipulations apply:

- At least five of the 10 courses must be chosen from MATH 931-MATH 978 or from 900-level IAM courses.
- At least three courses must be chosen from MATH 931-MATH 955.
- Courses in MATH 900 through MATH 929 may not be used to satisfy course requirements.
- With approval of the graduate committee, two non-MATH graduate-level courses taken at UNH may be used to satisfy course requirements.

As a concluding experience the student will take a two-hour oral examination in the three areas of analysis, algebra and topology. The student proposes the membership of the examining committee for the approval of the Graduate Program Committee.

## Student Learning Outcomes

- Students possess advanced competence in three basic branches of mathematics, topology, algebra and analysis, comprising both content knowledge and the ability to reason with and communicate such knowledge.
- Students possess significant exposure to graduate level content in the broader mathematical sciences.
- Students possess significant depth of graduate-level knowledge in some area(s) of mathematics.