

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.