MATHEMATICS: APPLIED MATHEMATICS (M.S.)

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

Description

The MS in Applied Mathematics provides a broad introduction to modern applied mathematics and the opportunity to apply the curriculum in a wide range of application areas.

Admission Requirements

Applicants must have completed significant coursework in pure or applied mathematics, preferably including numerical analysis, differential equations, real analysis, and complex analysis.

Applying

Please visit the Graduate School website for detailed instructions about applying to the master's program.

Requirements

Degree Requirements

This program requires **30 credit hours**.

Code	Title	Credits
Required Courses		
MATH 931	Mathematical Physics	3
IAM 933	Applied Functional Analysis	3
Select an approved two-course sequence in applied mathematics, such as:		6
IAM 961 & IAM 962	Numerical Analysis I: Numerical Linear Algebra and Numerical Partial Differential Equations	
MATH 898	Master's Project	3
Electives		
Select five elective courses, in consultation with advisor.		15
Total Credits		**30**

The elective courses need not be in mathematics, but must be at the 800 level or higher, and at least one must be a technical course in statistics or some other department. The broad elective flexibility allows the student's application interests to have a substantial role in the content of the program.

The student's full program plan must be proposed in writing to the applied mathematics faculty and approved prior to the student's second semester of study. There is no comprehensive examination in this option.

Accelerated Master's

This graduate program is approved to be taken on an accelerated basis in articulation with certain undergraduate degree programs.

General Accelerated Master's policy, note that some programs have additional requirements (e.g. higher grade expectations) compared to the policy.

Please see the Graduate School website and contact the department directly for more information.

Student Learning Outcomes

Program 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.