

MATHEMATICS

College of Natural Science and Mathematics
Department of Mathematics and Statistics
907-474-7332
www.uaf.edu/dms/

MS, PhD Degrees

Minimum Requirements for Degrees: MS: 30–35 credits;
PhD: 18 thesis credits

The number of new fields in which professional mathematicians find employment grows continually. This department prepares students for careers in industry, government and education.

The MS in mathematics prepares students for PhD work, in addition to providing a terminal degree for those planning to enter industry or education. The aim of the PhD program is to provide the student with the expertise to accomplish significant research in applied or pure mathematics, as well as to provide a broad and deep professional education.

In addition to the major programs, the department provides a number of service courses in support of other programs within the university. Current and detailed information on mathematics degrees and course offerings is available from the department.

The Department of Mathematics and Statistics also offers programs in statistics (see separate listings).

MS Degree

1. Complete the following admission requirements:
 - a. Submit three letters of recommendation addressing the applicant's educational background, mathematical ability, and research and teaching potential.
 - b. Submit undergraduate transcripts.
 - c. Submit a resume and written statement of goals.
2. Complete the general university requirements (page 200).
3. Complete the master's degree requirements (page 204) including a written comprehensive exam.
4. Complete the following core courses:

MATH F631—Algebra I.....	4
MATH F641—Real Analysis.....	4
MATH F645—Complex Analysis.....	4
MATH F651—Topology.....	4
5. Complete a project or thesis.
6. Minimum credits required 30–35
Note: For admission to the graduate school, students who are non-native speakers of English are required to submit either TOEFL or IELTS scores. While not required, submission of GRE general test scores is recommended.

PhD Degree

1. Complete the following admission requirements:
 - a. Submit three letters of recommendation addressing the applicant's educational background, mathematical ability, and research and teaching potential.
 - b. Submit undergraduate and, if applicable, graduate transcripts.
 - c. Submit a resume and written statement of goals.
2. Either submit transcripts indicating the completion of a master's degree in mathematics or a related area, or complete all the requirements for the MS degree in mathematics, including a project or thesis which initiates study of the PhD research area.
3. Pass the PhD qualifying exam.
4. Complete the general university requirements (page 200).
5. Complete the PhD degree requirements (page 205).
6. Minimum credits required36
Note: For admission to the graduate school, students who are non-native speakers of English are required to submit either TOEFL or IELTS scores. While not required, we recommend the submission of GRE mathematics subject test scores as part of the application for all students.

