

Mathematics

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

M.A.T., M.S., Ph.D. Degrees

Minimum Requirements for Degrees: M.A.T.: 36 credits;
M.S.: 30–35 credits; Ph.D.: 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 M.S. in mathematics prepares students for Ph.D. work, in addition to providing a terminal degree for those planning to enter industry or education. The M.A.T. degree prepares graduates to teach secondary school mathematics. The aim of the Ph.D. 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 maintains a math lab for all students studying mathematics at the baccalaureate level.

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

Graduate Program—M.A.T. Degree

1. Complete the following admission requirements:
 - a. The department does not require any GRE, but recommends applicants provide GRE general scores.
 - b. Complete and submit a TOEFL score of at least 600 (this requirement is only for foreign applicants who seek a teaching assistantship).
 - c. The department gives preference to foreign applicants who also submit results of the Test of Spoken English (TSE).
2. Complete the general university requirements (page 182).
3. Complete the M.A.T. degree requirements (page 187).
4. Complete the following:
MATH courses* 18
5. Minimum credits required 36
** At least 12 credits must be at the 600-level.*

Graduate Program—M.S. Degree

1. Complete the following admission requirements:
 - a. The department does not require any GRE, but recommends applicants provide GRE general scores.
 - b. Complete and submit a TOEFL score of at least 600 (this requirement is only for foreign applicants who seek a teaching assistantship).
 - c. The department gives preference to foreign applicants who also submit results of the Test of Spoken English (TSE).
2. Complete the general university requirements.
3. Complete the masters degree requirements including a written comprehensive exam.
4. Complete the following mathematics (core) courses:
MATH 631—Theory of Modern Algebra I 4
MATH 641—Real Analysis 4
MATH 645—Complex Analysis 4
MATH 651—Topology 4
5. Complete mathematics electives.
6. Complete a project or thesis.
7. Minimum credits required 30-35

Graduate Program—Ph.D. Degree

1. Complete the following admission requirements:
 - a. Submit transcripts indicating completion of a masters degree in mathematics or equivalent.
 - b. The department does not require any GRE, but recommends applicants provide GRE general scores.
 - c. Complete and submit a TOEFL. (For teaching assistantship consideration, foreign applicants whose native language is not English. Score of at least 600.)
 - d. The department gives preference to applicants who also submit results of the Test of Spoken English (TSE).
2. Complete the general university requirements (page 182).
3. Complete the Ph.D. degree requirements (page 186).
4. Minimum credits required 18