

Applied Mathematics Minor

The minor in Applied Mathematics provides formal recognition of mathematical proficiency. It is composed of a core of required courses and upper-division electives related to the student's major. The minor consists of 29 credits, 19 from required courses and 10 from elective courses.

This minor is open to all majors and is especially recommended for students with an interest in pursuing a career related to mathematics. It will enhance their employability and improve graduate school possibilities.

Curriculum

1. Required courses: MATH 251, MATH 252, MATH 253N, MATH 254N and MATH 341, plus 10 additional upper-division mathematics credits selected from the list below.
2. A passing grade in all courses and a cumulative GPA of 2.0 or better is required to be awarded the minor.
3. At least 12 credits must be taken at OIT.

Students are required to consult an advisor from the Mathematics Department to select upper-division mathematics courses that would be most applicable to their major and/or career goals.

Upper-Division Electives:

MATH 311 Introduction to Real Analysis
 MATH 321 Applied Differential Equations I
 MATH 322 Applied Differential Equations II
 MATH 327 Discrete Mathematics
 MATH 342 Linear Algebra II
 MATH 346 Number Theory
 MATH 347 Fundamentals of Abstract Algebra
 MATH 354 Vector Calculus II
 MATH 362 Statistical Methods II
 MATH 421 Applied Partial Differential Equations I
 MATH 422 Applied Partial Differential Equations II
 MATH 423 Applied Partial Differential Equations III
 MATH 425 Vector Analysis
 MATH 451 Numerical Methods I
 MATH 452 Numerical Methods II
 MATH 453 Numerical Methods III
 MATH 465 Mathematical Statistics

Note: Not all courses are offered every term or every year.