

MATHEMATICS MINOR

- Prospective minors are urged to consult with an advisor in the Department of Mathematics to plan a coherent program of study.

A minor in mathematics provides students with basic abilities in linear and abstract algebra as well as a broad introduction to topics such as logic, set theory, functions and fundamental methods of mathematical proof. Students also develop widely sought-after skills including the ability to evaluate situations logically and critically and to implement effective problem-solving strategies involving a wide range of information.

Mathematics is an ideal minor for students who wish to develop advanced analytical skills and for students preparing for careers in research, the sciences, economics and medical fields. Careers demanding critical thinking, such as law and technical writing, also benefit from the study of mathematics, making a minor in mathematics a versatile option to accompany many primary fields of study.

Minor Requirements

Prerequisite Courses (8 Hours)

Course	Title	Credits
MATH 141	Calculus I	4
MATH 142	Calculus II	4
Total Credit Hours		8

Requirements

Course	Title	Credits
Required Course		
MATH 241	Vector Calculus	3
Additional Courses		
Select 15 hours from the following: ¹		15
MATH 242	Elementary Differential Equations	
MATH 300	Transition to Advanced Mathematics	
MATH 344	Applied Linear Algebra	
MATH 374	Discrete Structures	
MATH courses at the 500-level		
Total Credit Hours		18

¹ At least 6 hours must be at the 500-level.

Note

- All courses for a minor must be completed with a C or better.
- At most one of MATH 374 and MATH 574 may be used for minor credit.
- At most one of MATH 344, MATH 526, and MATH 544 may be used for minor credit.
- Most of the math courses at the 500-level have a prerequisite of MATH 300 and/or MATH 344 (or MATH 544, which implicitly assumes completion of 300). Students are therefore strongly urged to include one or both of MATH 300, MATH 344 in their minor program.
- Students with an interest in pure mathematics (algebra, analysis, discrete mathematics, geometry and topology, logic, mathematics education, and number theory) should take MATH 300.
- Students with an interest in applied and computational mathematics (differential equations and modeling, financial mathematics, numerical analysis, optimization) should take MATH 344.