

# MATHEMATICS - MINOR

The undergraduate minor in mathematics emphasizes knowledge and awareness of:

- Calculus of several variables and vector analysis.
- The structure of mathematical proofs and definitions.
- Basic linear algebra and the theory of vector spaces.
- At least one additional specialized area of mathematics.

## Requirements

Declaration of a minor in mathematics is open to any student enrolled at CU Boulder, regardless of college or school.

To earn a minor in mathematics, students must complete the following courses with a grade of C- or better in each course (no pass/fail work may be applied), and they must have at least a C (2.00) average for all attempted work in mathematics. Students are allowed to apply no more than 9 credit hours, including 6 upper-division credit hours, of transfer work toward a minor.

## Required Courses and Credit Hours

Code	Title	Credit Hours
<b>Required Courses</b>		
MATH 1300 or APPM 1350	Calculus 1 Calculus 1 for Engineers	4-5
MATH 2300 or APPM 1360	Calculus 2 Calculus 2 for Engineers	4-5
MATH 2400 or APPM 2350	Calculus 3 Calculus 3 for Engineers	4-5
MATH 2001 or MATH 2002	Introduction to Discrete Mathematics Number Systems: An Introduction to Higher Mathematics	3
MATH 2130 or MATH 2135	Introduction to Linear Algebra for Non-Mathematics Majors Introduction to Linear Algebra for Mathematics Majors	3
<b>Electives</b>		
Three upper-division MATH courses (at least one at the 4000-level)		9
<b>Total Credit Hours</b>		<b>27-30</b>