MINOR IN MATHEMATICS

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Students must complete MATH 241, and at least one 400-level MATH course for admission into the minor. The Mathematics minor is designed to prepare students majoring in some other discipline with a background in mathematics that is both broad and deep. Students interested in pursuing the minor should have completed the calculus sequence through MATH 241, and one additional Math course at the 400-level demonstrating a strong record of success in college-level mathematics courses. Given the cumulative character of mathematics preparation, students earning grades of C or below in previous mathematics courses are advised not to pursue the minor.

MATH 241  Calculus III  4
Completed in one of two ways:
  15
MATH 347  Fundamental Mathematics (and four courses chosen from at least two of the following lists of courses)

OR

five courses chosen from at least two of the following lists of courses.

Algebra
MATH 410  Lin Algebra & Financial Apps
MATH 415  Applied Linear Algebra
MATH 416  Abstract Linear Algebra
MATH 417  Intro to Abstract Algebra
MATH 418  Intro to Abstract Algebra II
MATH 427  Honors Abstract Algebra
MATH 453  Elementary Theory of Numbers

Discrete Mathematics
MATH 412  Graph Theory
MATH 413  Intro to Combinatorics
MATH 414  Mathematical Logic
MATH 482  Linear Programming

Analysis
MATH 284  Intro Differential Systems
MATH 285  Intro Differential Equations
MATH 286  Intro to Differential Eq Plus
MATH 424  Honors Real Analysis
MATH 425  Honors Advanced Analysis
MATH 441  Differential Equations
MATH 442  Intro Partial Diff Equations
MATH 444  Elementary Real Analysis
MATH 446  Applied Complex Variables
MATH 447  Real Variables
MATH 448  Complex Variables
CS 450  Numerical Analysis
MATH 484  Nonlinear Programming
MATH 487  Advanced Engineering Math
MATH 489  Dynamics & Differential Eqns

Geometry
MATH 402  Non Euclidean Geometry
MATH 403  Euclidean Geometry
MATH 423  Differential Geometry
MATH 428  Honors Topics in Mathematics
MATH 432  Set Theory and Topology
MATH 481  Vector and Tensor Analysis

Probability and Statistics
MATH 461  Probability Theory
STAT 400  Statistics and Probability I
STAT 410  Statistics and Probability II
or STAT 420  Methods of Applied Statistics

Total Hours 19

1 Students may use STAT 410 or STAT 420, but not both toward the minor.