

Calculus Sequence – 8 Credits

Majors must take one calculus sequence

- MA-143 Differential Calculus (4 cr)
- MA-144 Integral Calculus (4 cr)

Or

- MA-123 Elementary Calculus I
- MA-124 Elementary Calculus II
- MA-125 Intermediate Calculus (2 cr)

Additional Calculus Courses – 6-8 Credits

Choose at least two of the following. Majors must take at least 14 credits total in Calculus.

- MA-273 Multivariable Calculus I (4 cr)
- MA-274 Multivariable Calculus II (4 cr)
- MA-375 Advanced Calculus
- MA-377 Ordinary Differential Equations
or MA-379 Differential Equations for Engineers (4 cr)

Required Courses – 16 Credits

Each of the following courses must be taken

- MA-247 Introductory Linear Algebra
- MA-248 Math Tech Lab (1 cr)
- MA-250 Transitions to Advanced Mathematics
- MA-350 College Geometry
- MA-400 History of Mathematics
- MA-441 Modern Algebra

Capstone Experience – 0 Credits

To be satisfied in an upper division MA course during the student's senior year.

Statistics, Probability, or Discrete Math – 3 Credits

Take one of the following courses

- MA-132 Statistics for the Life Sciences
- MA-212 Elementary Statistics
- MA-222 Intermediate Statistics
- MA-316 Intermediate Discrete Mathematics
- MA-335 Probability Theory
- MA-336 Mathematical Statistics
- MA-337 Statistical Computing with R
- MA-338 Regression Analysis
- MA-389 Topics in Statistics

Mathematics Elective – 3-4 Credits

Take one of these courses. A course cannot be counted as an elective course and towards another major requirement.

- MA-316 Intermediate Discrete Mathematics
- MA-335 Probability Theory
- MA-336 Mathematical Statistics
- MA-337 Statistical Computing with R
- MA-338 Regression Analysis
- MA-347 Topics in Linear Algebra
- MA-350 College Geometry
- MA-375 Advanced Calculus
- MA-377 Ordinary Differential Equations
or
MA-379 Differential Equations for Engineers (4 cr)
- MA-382 Mathematical Modeling
- MA-385 Topics in Applied Mathematics
- MA-387 Topics in Mathematics
- MA-389 Topics in Statistics
- MA-399 Independent Study
- MA-417 Introduction to Topology
- MA-441 Modern Algebra
- MA-442 Topics in Modern Algebra
- MA-467 Functions of Complex Variables
- MA-481 Numerical Analysis

