

Essential Mathematics – 3 Credits

Take one of the following courses

- MA-101 Precalculus
- MA-107 Topics in Contemporary Mathematics
- MA-218 Quantitative Methods for Business

Essential Statistics – 6 Credits

Take two of the following courses. At least one course must be numbered 132 or higher. A student may not receive credit for both MA-132 and MA-212.

- MA-103 Probability and Statistics for Liberal Art
- MA-106 Introduction to Probability and Statistics
- MA-132 Statistics for the Life Sciences
- MA-212 Elementary Statistics
- MA-222 Intermediate Statistics
- MA-304 Statistics, Probability, and Discrete Math for Middle School
- MA-336 Mathematical Statistics
- MA-337 Statistical Computing with R

Calculus – 6-8 Credits

Take two calculus courses. Students can only receive credit for one 100 level Calculus sequence.

- MA-123 Elementary Calculus I
 - MA-124 Elementary Calculus II
- or
- MA-143 Differential Calculus (4 cr)
 - MA-144 Integral Calculus (4 cr)
- or
- MA-273 Multivariable Calculus I (4 cr)
 - MA-274 Multivariable Calculus II (4 cr)

Algebra – 3 Credits

Take one of the following courses

- MA-247 Introductory Linear Algebra
- MA-302 Elementary Math Functions for Middle School
- MA-441 Modern Algebra

Geometry – 3 Credits

Take one of the following courses

- MA-306 Geometry for Middle School
- MA-350 College Geometry

Required Courses – 6 Credits

Each of the following courses must be taken

- MA-250 Transitions to Advanced Mathematics
- MA-400 History of Mathematics

Capstone Experience – 0 Credits

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

Mathematics Electives – 6-8 Credits

Take two of these courses. A course cannot be counted as an elective course and towards another major requirement. At least four courses that count towards the major must be at the 300-level or above.

Choose up to one of the following – 3-4 Credits

- MA-212 Elementary Statistics
- MA-214 Mathematics of Finance
- MA-216 Computer Mathematics
- MA-218 Quantitative Methods for Business
- MA-222 Intermediate Statistics
- MA-247 Introductory Linear Algebra
- MA-273 Multivariable Calculus I (4 cr)
- MA-274 Multivariable Calculus II (4 cr)
- MA-295 Credited Internship
- MA-302 Elementary Math Functions for Middle School
- MA-304 Statistics, Probability, and Discrete Math for Middle School
- MA-306 Geometry for Middle School

Choose at least one of the following – 3-4 Credits

- 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

