

Mathematics Major Requirements

Note: after each of the following courses, the prerequisites are given in parentheses ().

I. Mathematics Requirements

MATH 132 Precalculus (**MATH 131**)

MATH 201 Calculus I (**MATH 132**)

MATH 202 Calculus II (**MATH 201**)

MATH 211 Discrete Mathematics I (**MATH 131**)

MATH 250 Language of Mathematics (**MATH 201**)

MATH 301 Linear Algebra (**MATH 131**)

MATH 302 Numerical Methods (**MATH 202** and **MATH 301**)

MATH 303 Introduction to Mathematical Statistics I (**MATH 202**)

MATH 305 Calculus III (**MATH 202**)

MATH 306 Multivariable Calculus (**MATH 202**)

MATH 307 Elements of Euclidean and Non-Euclidean Geometries (**MATH 131**)

MATH 310 Algebraic Structures (**MATH 201**)

MATH 401 Real Analysis I (**MATH 305**)

MATH 405 Differential Equations (**MATH 202**)

MATH 417 Mathematics Seminar (**MATH 202**)

II. Computer Science Requirements

COSC 199 Introduction to Computer Programming

COSC 220 Computer Science I (**COSC 199**)

COSC 221 Computer Science II (**COSC 220**)

III. Science General Education Requirements (GER)

MATH 131 College Algebra for Mathematics and Science Majors (*prerequisite DVMT 109*). This is a 3 credit course. **This course serves as the Mathematics GER (Category IV).**

Also required are 8 credits in calculus-based physics: **PHYS 303** and **PHYS 304**. **These credits serve as the Natural Science GER (Category V).**