

**Applied Math** - The Applied Mathematics Track emphasizes courses needed by students who plan to work alongside scientists and engineers in industry. It is recommended that the student minor in computer science as a complement to this track.

**Required courses:**

Math 1910-Calculus I

Math 1920-Calculus II

Math 2010-Introduction to Linear Algebra

Math 2110-Calculus III

Math 2120-Differential Equations

Math 3810-Complex Variables

Math 3400-Introduction to Concepts of Mathematics

Math 3430-College Geometry OR Math 4410-Differential Geometry OR Math 4310-  
Introduction to Topology

Math 4010-Modern Algebra I

Math 4530-Linear Algebra I

Math 4470-Probability and Statistics I

Math 4110-Advanced Calculus I

**Suggested courses include the required courses listed above and the following courses:**

MATH 4510 Advanced Math for Engineers

MATH 4540 Linear Algebra II

**Two sequences chosen from the following:**

MATH 3070-3080 Statistical Methods I and II

MATH 4210-4220 Numerical Analysis I and II

MATH 4250-4260 Advanced Ordinary Differential Equations I and II

MATH 4350 Introductory Combinatorics, MATH 4360 Graph Theory, or MATH 4050 Number  
Theory

MATH 4470-4480 Probability and Statistics I and II