COURSES

In addition to our foundational mathematics core, you will also complete adjunct computation courses and choose electives tailored to the programs that interest you. Here’s a sample of what you can expect to learn and do:

Calculus I
This is a beginning course in the calculus of one variable and analytic geometry. The concept of limits and their use in differential and integral calculus, max and min values of functions, and solving for areas and volumes are treated.

Introduction to Differential Equations
This course examines the fundamental methods of solving elementary differential equations. Topics include exact solutions, series solutions, numerical solutions, and solutions using Laplace transforms.

Linear Algebra
Linear algebra expands on topics introduced in Math A200 such as vector spaces, matrices, determinants, eigenvalues, linear functionals, bilinear forms, vector geometry, and their applications.

Math Probability
This course introduces the theory of probability. Topics include combinatorial analysis, axioms of probability, discrete and continuous random variables, expectation, multivariate probability distributions, function of random variables, and basic limit theorems.

Abstract Algebra I
This is a general survey course in the concepts of algebra treating number systems, groups, rings, domains, fields, matrices over a field, elements of Galois theory, and canonical forms.