# Dual Enrollment Calculus III & Differential Equations

This is a two-semester dual enrollment course offered through NOVA. Students who successfully complete this course will receive 7 college credits. The first semester of the course focuses on extending the concepts of function, limit, continuity, derivative, integral, and vector form the plane to the three dimensional space. Topics include: vector functions, multivariate functions, partial derivatives, multiple integrals and an introduction to vector calculus. The second semester introduces ordinary differential equations. Topics include: first order differential equations, second and higher order ordinary differential equations with applications and numerical methods. This course may be offered only online, via independent study.

**High School Credits:** 1
**School Level:** High School
**Grade:** 11, 12
**Prerequisites:**
Scoring 4 or better on AP Calculus BC exam and meet all college entrance requirements
**Program:** Mathematics Core Courses