MATH255 : Calculus III

Topics of study include vectors in the plane, analytic geometry three-dimensional space, vectors in three-dimensional space, differentiation and integration of vector-valued functions, functions of several variables, Lagrange multipliers, multiple integration, applications of multiple integrals, Jacobians, vector analysis, Green's Theorem, Divergence Theorem, and Stoke's Theorem. Students will be required to work with a graphing calculator and a mathematical software program. Meets the General Education requirement for Mathematics.

Credits 4
Lecture Hours 4
Lab/Clinical/Field Study Hours 0
Prerequisites
MATH156 or equivalent with a grade of C or better
Semester Offered
Fall