# MATH 270: Multivariable Calculus

This course is an introduction to multivariable calculus. Topics include vectors in the plane and in space, limits and continuity, partial derivatives, directional derivatives, gradient, tangent planes, multivariable optimization and Lagrange multipliers, multiple integration, vector fields, line integrals, divergence, curl, and the theorems of Green, Gauss and Stokes.

**Units:** 4
**Prerequisites:**
MATH 171 or equivalent
**Program:** Mathematics