

# MAT 2500: Calculus III

Parametric equations; polar, cylindrical, and spherical coordinates; vectors and the geometry of space; vector functions (derivatives, integrals, curvature, etc.); partial derivatives; optimization; multiple integration and its applications; vector calculus (line integrals, vector analysis). Continued use of a computer algebra system.

**Credits:** 4.0

**Prerequisites:**

MAT 1505

MAT 1505 :D-

**Program:** Mathematics and Statistics