

# MATH 244 : Calculus IV

Math 244 is the fourth course in the calculus sequence. Topics include multiple integrals, line integrals, Green's Theorem, surface integrals, Stokes' Theorem, Gauss' Theorem and differential equations. Formerly MATH 232.

**Credits** 3

**Lecture Hours** 3

## **Prerequisites**

Grade of C or better in Math 231 or MATH 243 or equivalent or consent of instructor.

## **Course Outcomes**

- Compute multiple integrals in various coordinate systems.
- Use multiple integrals or vector calculus techniques to solve applied problems.
- Utilize precise mathematical language and symbols to effectively communicate mathematics in written and/or oral form.