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:
“C” or better in Math 231 or MATH 243 or equivalent or consent of instructor.
Program: Math
Student Learning Outcomes:

- Double Integrals in Rectangular and Polar Coordinates
- Triple Integrals in Rectangular, Cylindrical and Spherical Coordinates; Mass Calculations
- Change of Variables in Multiple Integration; Vector Fields
- Applications of Green's Theorem, Stoke's Theorem, and Divergence Theorem