

Ma 213 Calculus III – Syllabus – Spring 2005

Text: *Calculus*, 3rd Edition, by James Stewart

Goals: The third semester of calculus is an introduction to the calculus of several variables. The principal goals are to become familiar with the vector geometry and algebra of two and three dimensional spaces; the concepts, basic theorems and some applications of partial differentiation and multiple integration; and the calculus of vector-valued functions of one or more variables.

Course Content:

- Chapter 11: Three-Dimensional Analytic Geometry and Vectors.
- Chapter 12: Partial Derivatives.
- Chapter 13: Multiple Integrals.
- Chapter 14: Vector Calculus (Sections 14.1-14.4)