

Del Mar College
Math 2314
Calculus II

The textbook for 2003-2004 is *Calculus*, Earl Swokowski (Brooks/Cole, Classic Edition, 1991). The following topics are to be covered in Calculus II.

- 14.1 Vectors in Two Dimensions
- 14.2 Vectors in Three Dimensions
- 14.3 The Dot Product
- 14.4 The Vector Product
- 5.3 Summation Notation and Area
- 5.4 The Definite Integral
- 5.5 Properties of the Definite Integral
- 5.6 The Fundamental Theorem of Calculus
- 6.1 Area
- 6.2 Solids of Revolution
- 6.3 Volumes by Cylindrical Shells
- 6.4 Volumes by Cross Sections
- 6.5 Arc Length and Surfaces of Revolution
- 6.6 Work
- 6.7 Moments and Centers of Mass
- 6.8 Other Applications
- 7.1 Inverse Functions
- 7.2 The Natural Logarithm Function
- 7.3 The Natural Exponential Function
- 7.4 Integration
- 7.5 General Exponential and Logarithmic Functions
- 8.1 Inverse Trigonometric Functions
- 8.2 Derivatives and Integrals
- 8.3 Hyperbolic functions
- 8.4 Inverse Hyperbolic functions