F. Derivatives of Logarithmic Functions
G. Rates of Change in the Natural and Social Sciences
H. Hyperbolic Functions

III. Applications of Differentiation
A. Related Rates
B. Linear Approximations and Differentials
C. Maximum and Minimum Values
D. The Mean Value Theorem
E. How Derivatives Affect the Shape of a Graph
F. Curve Sketching
G. Optimization Problems

IV. Integrals
A. Antiderivatives
B. Areas and Distances
C. The Definite Integral
D. The Fundamental Theorem of Calculus
E. Logarithm Defined as an Integral
F. Indefinite Integrals and the Net Change Theorem
G. The Substitution Rule

REQUIRED TEXTBOOK AND MATERIAL:

The textbook and other instructional material will be determined by the chair/instructor.