Dr. Mann's M408D Fall 2010

Date	Topic
25-Aug	7.8 Indeterminate Forms and L'Hospital's Rule
27-Aug	8.8 Improper Integrals
30-Aug	12.1 Sequences
1-Sep	12.2 Series
3-Sep	12.3 The Integral Test and Estimates of Sums
6-Sep	**Labor Day Holiday**
8-Sep	12.4 The Comparison Test
10-Sep	12.5 Alternating Series
13-Sep	12.6 Absolute Convergence and the Ratio and Root Tests
15-Sep	12.7 Strategy for Testing Series
17-Sep	12.8 Power Series
20-Sep	**Exam 1**
22-Sep	12.8, 12.9 Representations of Functions as Power Series
24-Sep	12.9, 12.10 Taylor and Maclaurin Series
27-Sep	12.10, 12.11 Applications of Taylor Polynomials
29-Sep	12.11 Applications of Taylor Polynomials
1-Oct	11.1 Curves Defined by Parametric Equations
4-Oct	11.2 Calculus with Parametric Curves
6-Oct	11.3 Polar Coordinates
8-Oct	11.4 Areas and Lengths in Polar Coordinates
11-Oct	13.1 Three-Dimensional Coordinate Systems
13-Oct	13.2 Vectors
15-Oct	13.3 The Dot Product
18-Oct	13.4 The Cross Product
20-Oct	**Exam 2**
22-Oct	13.5 Equations of Lines and Planes
25-Oct	13.6 Cylinders and Quadric Surfaces
27-Oct	14.1 Vector Functions and Space Curves
29-Oct	14.2 Derivatives and Integrals of Vector Functions
1-Nov	15.1 Functions of Several Variables
3-Nov	15.2 Limits and Continuity
5-Nov	15.3 Partial Derivatives
8-Nov	15.4 Tangent Planes and Linear Approximations
10-Nov	15.5 The Chain Rule
12-Nov	15.6 Directional Derivatives and the Gradient Vector
15-Nov	15.7 Maximum and Minimum Values
17-Nov	15.8 Lagrange Multipliers
19-Nov	**Exam 3**
22-Nov	16.1 Double Integrals over Rectangles
24-Nov	16.2 Iterated Integrals
26-Nov	**Thanksgiving Holiday**
29-Nov	16.3 Double Integrals over General Regions
1-Dec	16.4 Double Integrals in Polar Coordinates
3-Dec	16.5 Applications of Double Integrals
8-Dec	**Final Exam**

Deviations from this tentative calendar may occur during the semester. The actual material covered each day may only be ascertained by attending the lectures.