Econ 1088 - 001 Math Tools for Economists II
Course Syllabus-- Fall 2007

90-100 A
80-89 B
70-79 C
60-69 D
Below 60 F

Tentative Course Outline

Chapter 6 Differentiation:
6-1 Slopes of Curves
6-2 The derivative. Tangents
6-3 Increasing and Decreasing Functions
6-4 Rates of Change
6-5 A Dash of Limits
6-6 Simple Rules for Differentiation
6-7 Sums, Products, and Quotients
6-8 Chain Rule
6-9 Higher Order Derivatives
6-10 Exponential Functions
6-11 Logarithmic Functions

Chapter 7 Derivatives in Use:
7-1 Implicit Differentiation
7-2 Economic Examples
7-7 Why Economists Use Elasticities

Chapter 8 Single-Variable Optimization:
8-1 Introduction
8-2 Simple Tests for Extreme Points
8-3 Economic Examples
8-4 The Extreme-Value Theorem
8-5 Further Economic Examples

Chapter 11 Functions of Many Variables:
11-1 Functions of Two Variables
11-2 Partial Derivatives with Two Variables
11-3 Geometric Representation
11-5 Functions of More Variables
11-6 Partial Derivatives with More Variables
11-7 Economic Application
11-8 Partial Elasticities

Chapter 13 Multivariable Optimization:
We will cover this in detail commensurate with available time

General policies of this class:

    1) It is the students' responsibility to take control of