

ECON 1088-200 Syllabus

Econ 1088: Math Tools for Economists II

Summer 2006

Instructor: Lei Yang

Class Hours: MTWRF 11:00-12:35

Class location: ECON 119

Office: Econ 309 B

Office Hours: MW 12:35-2:00 p.m. and by appointment

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The web page is the most important resource for this class. All notes, homework, answer keys are going to be posted on this site.

Course Description:

This course is a continuation of Econ 1078. Basically, it consists of two parts: derivatives and integrals (chapters 9-11 of the text). These tools will help you to better understand the mathematical framework on which economic models are based.

Prerequisite:

them.

Exam Schedule:

| | Date |
|----------------------|-----------------|
| Exam1(In-class) | July 21, 2006 |
| Exam2(In-class) | July 28, 2006 |
| Exam3(In-class) | August 4, 2006 |
| Final Exam(In-class) | August 11, 2006 |

Grading:

Homework: 15 points

In-class Exam1: 25 points

In-class Exam2: 25 points

In-class Exam3: 25 points

Final Exam: 35 points

1) Each in-class midterm is worth 25 points (I will drop the lowest in-class midterm grade). There will be **no make-ups**.

2) The Final is **compulsory** and **cumulative**. The final is worth 35 points. It cannot be replaced with any other exam under any circumstances. You can only rearrange your final if you have **three or more** finals on the same day.

Topics covered in the course include (Tentative Course Outline):

Chapter 9 The Derivative:

9-1 Introduction to Limits

9-2 Continuity

9-3 The Derivative

9-4 Power Rule and Basic Differentiation Properties

9-5 Derivatives of Products and Quotients

9-6 General Power Rule (Chain Rule)

9-7 Marginal Analysis in Business and Economics

Chapter 10 Graphing and Optimization:

10-1 First Derivative and Graphs

10-2 Second Derivative and Graphs

10-3 Graphing Rational Functions

10-4 Absolute Maxima and Minima

10-5 Optimization

Chapter 11 Additional Derivative Topics:

lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-725-2273). Students who are found to be in violation of the academic integrity policy will be