

Syllabus

Econ 1088 - 002 Math Tools for Economists II Spring 2007

Instructor: David Kingsley

Class Hours: MWF 2:00 - 2:50 pm

Class location: BESC 185

Office: Econ 12

Office Hours: Monday and Wednesday 12:30 - 1:30 p.m.
And by appointment

Office Phone: 303-735-1727

E-mail: David.Kingsley@colorado.edu (preferred method of contact)

Course Website: Includes information specific to my class. For example, homework, quizzes and midterm information.

<http://ucsub.colorado.edu/~kingsled>

1088 General Website: Includes materials common to all sections of 1088 as well as review problems.

<http://www.colorado.edu/economics/courses/ECON1088/1088home.html>

Prerequisite:

Econ 1078 or equivalent

Required Textbooks:

Knut Sydsaeter and Peter Hammond, "Essential Mathematics for Economic Analysis", Second edition

The Course

This course provides the foundation of mathematical analysis necessary for the rest of your Economic courses as an undergraduate. Note that your textbook is the official math reference book for your undergraduate career as an Economics major. All of the faculty will assume you have a copy of the book and know its content. You are expected to keep this book until you graduate. The majority of in-class time will be spent lecturing on new material and problem solving. Whenever possible economic examples will be brought into the classroom.

Homework:

Homework will be assigned weekly so that you can practice with the new material. Completing homework assignments is the only way to fully understand the material and to prepare for quizzes.

Quizzes:

In addition to homework, quizzes will be given weekly which will test your knowledge of the homework problems. The two lowest quiz scores for each student will be dropped at the end of the semester. As such no make up quizzes will be provided.

Exams:

Three midterms will be given and one comprehensive final. All exams are given in the classroom. The lowest of the exams (excluding the final) will be dropped. Again, this means that no make up exams will be granted. The final will not be dropped.

Midterm 1: Wednesday February 14th 2007

Midterm 2: Wednesday March 21st 2007

Midterm 3: Wednesday April 25th 2007

Final Exam: Saturday May 5th 2007 from 7:30 to 10:00 am

Grading:

Top N-2 quizzes will make up 20% of your grade

Top 2 Midterms will make up 40% of your grade (20% each)

Cumulative Final will make up 40% of your grade

Letter Grading:

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 Economics 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

11-5 Functions of More Variables

11-6 Partial Derivatives with More Variables

11-7 Economic Application

General policies:

- 1) It is the students' responsibility to take control of their own education. If you are having problems, I am more than willing to help you. You just need to approach me at some point.
- 2) No make-ups will be given unless there is a proven emergency that prevents you from attending class on the scheduled exam date. You are required to submit proof of the emergency. If you miss an exam or a quiz, you will be given a zero.
- 3) All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, 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 subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>
Honor Code: "On my honor, as a University of Colorado at Boulder student, I have neither given nor received unauthorized assistance on this work."
- 4) If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and www.Colorado.EDU/disabilityservices.
- 5) Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students can see full details at http://www.colorado.edu/policies/fac_relig.html
- 6) Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to behavioral standards may be subject to discipline. Faculty has the professional responsibility to treat students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which students express opinions. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at <http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student>