

Syllabus for Math Tools for Economists I (Econ 1078-200) - Fall 2008

Instructor:

Rob Tischer

Class Meeting Times:

T TH 11:00am-12:15pm CLRE 207

Final Exam

Tuesday, December 16, 2008, 7:30am

Office Location:

Norlin N520 (Norlin Library 5th floor NW Tower)

Email:

robert.tischer_at_colorado.edu

This is the best way to contact me, if you won't get a reply within 24 hours please assume that I didn't get your email and resend it.

Class Website:

<http://webfiles.colorado.edu/tische/econ1078/index.html>

This is instructor's web page. Relevant material to the course will be posted here.

[ECON1078 Common Page](#)

This is the web page developed by all Econ 1078 instructors. You can find homework and exam problems from previous semesters there.

Office Hours:

Tuesday 12:30pm-2pm

Thursday 12:30pm-2pm

By appointment

Course Description and Objectives:

The goal of this class is to provide students with the mathematical tools needed for future courses in business and economics. We will cover polynomials, functions, present and future values, solving systems of equations, logic, probability, and differentiation.

Textbook:

Essential Mathematics for Economic Analysis, 2nd edition, by Knut Sydsater, and Peter Hammond is required. 1088 adopts the same textbook. This is a very good reference book, which can always help to refresh your knowledge of algebra and calculus.

Calculator Note:

As this is a course designed to teach mathematical techniques you will need a calculator that can do basic mathematical functions. These include exponentials, logarithms, radicals, and factorials (\log , \ln , e^x , $\sqrt[n]{x}$ and $x!$). Any basic scientific calculator will perform these functions. While a graphing calculator may be useful in doing some of the homework problems, **you cannot use a graphing calculator on the exam.**

Grading:

Grades will be determined on the basis of your performance on 5 quizzes, homework assignments, 2 midterms, and a final exam. Your lowest quiz grade and homework assignment grade will be dropped and the others averaged together to obtain your quiz and homework assignment grades. The quiz grade is worth 15% of your over all grade, and the homework assignment grade is worth 10% of your overall grade..

The midterms will be administered on September 25 and November 6 in class. Each test is worth 25% of the course grade. The midterms are not cumulative and will cover only the material since the previous test.

The final exam is scheduled for **December 16th (Tue.)** from **7:30am to 10 am**. The final exam is worth 25% of your grade. The final exam will be cumulative. If you have three final exams scheduled for this day, and this is the last of your exams, you can take the final on another day. Please speak with me as soon as possible if this is the case.

100-93% A 73-76% C

90-92% A- 70-72% C-

87-89% B+ 67-69% D+

83-86% B 63-66% D

80-82% B- 60-62% D-

77-79% C+ below 60% F

5 quizzes (Drop the lowest) – 15% of total

Homework Assignments - 10% of total

2 Midterms – 25% each of total

Final -25% of total

Make-Up Exams:

There will be NO make-up homework assignments, quizzes, or exams for this class. If you miss a midterm exam with a documented excuse, the weight given your final exam will be increased.

Tentative Course Schedule:

Week of	Course Material	Topics	Quiz/Exam
8/25	1.1, 1.2,	Real Numbers, Integer Powers	
9/1	1.3, 1.4	Rules of Algebra, Fractions	Quiz 1
9/8	1.5, 1.6	Fractional Powers, Inequalities	
9/15	1.7, Review Chpt 1	Intervals, Absolute Values	Quiz 2
9/22	Midterm 1, 2.1	Midterm Review, Simple Equations	Midterm 1 (9/25)
9/29	2.2, 2.3	Equations with Parameters, Quadratic Equations	
10/6	2.4, 2.5	Linear Equations/2 Unknowns, Nonlinear Equations	Quiz 3
10/13	3.1, 3.2, 3.3	Summation Notation, Rules for Sums, Double Sums	
10/20	3.4, 3.5, 3.6, 3.7	Logic, Math Proofs, Set Theory, Induction	Quiz 4
10/27	4.1, 4.2, 4.3, 4.4, 4.5	Functions of 1 Variable	
11/3	Review, Midterm2, 4.6, 4.7	Quadratic Functions, Polynomials	Midterm 2 (11/6)
11/10	4.8, 4.9, 4.10 5.1	Power, Exponential, Logarithmic Functions	
11/17	5.2, 5.3, 5.4, 5.5	More Functions, Inverse Function, Graph, Distance	

11/24	-	Fall Break (no classes)	
12/1	5.5, 5.6, 6.1	General Function, Slope of Curves	Quiz 5
12/8	6.2	Derivative, Tangents, Review for Final	-
Final Exam on December 16 th from 7:30am-10 am			

Honor Code:

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/>

Expectations of Classroom Behavior:

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 have 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_code

Absences:

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. Please notify me as soon as possible so that the proper arrangements can be made. Students can see full details at http://www.colorado.edu/policies/fac_relig.html

Disabilities Statement:

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 <http://www.Colorado.EDU/disabilityservices>.

Time extensions for exams must be approved by me prior to the exam. If you have not talked to me personally prior to the exam you will not be granted an extension.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. Other letters/requests you may receive from agencies such as the Wardenburg Student Health Center, or other health providers, such as physicians or counselors, are recommendations you may choose to follow to assist students but are not necessarily legal mandates. The syllabus statements and answers to Frequently Asked Questions can be found at <http://www.colorado.edu/disabilityservices>