

ECON 1078
Mathematical Tools for Economists I
 Summer 2006 – Term B

Instructor: Mei Yuan	Class Time: MTWRF 11:00am-12:35pm
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Office Hours: TR 1-3pm	
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Course description:

This course provides an introduction to fundamental mathematics, which are essential to understanding economic theories. It is the first course in a two-course sequence. We will start with a review of some basic algebraic operations. Then we will cover functions and corresponding graphs. Finally the introduction to calculus theory will be presented.

Textbook:

College Mathematics for Business, Economics, Life Sciences, and Social Sciences, 10th edition, by Raymond A. Barnett Michael R. Ziegler, and Karl E. Byleen.

Course requirement, grading and exam policies:

There will be in-class quizzes, three midterm exams, and a mandatory **comprehensive final exam**. Your course grades will be determined as follows:

In-class Quizzes	15 points
Midterm Exam 1	15 points
Midterm Exam 2	15 points
Midterm Exam 3	15 points
Final	40 points

Quiz – Quizzes are scheduled each Wednesday (except the first one). Each takes 3 points.

Midterm and Final –As a general rule, there will be **no makeup exams or exam rescheduling**. The final exam is compulsory and cannot be replaced with any other exam under any circumstances. You can find the practice exams and solutions on the class website.

Your grade will be assigned based on the following scale:

Average Points	93-100	90-92	87-89	83-86	80-82	77-79
Grade	A	A-	B+	B	B-	C+
Average Points	73-76	70-72	67-69	63-66	60-62	0-59
Grade	C	C-	D+	D	D-	F

Schedule:

Date	Chapter	Topic	Quiz/Test
7/11	A-1	Algebra Basics	
7/12	A-2 A-3	Polynomials	
7/13	A-4	Rational Expression	
7/14	A-5	Integer Exponents	Quiz 1
7/17	A-6 A-7	Radicals & Equations	
7/18	1-1 1-2	Functions, Graph Transformation	
7/19	1-2 1-3	Lines	Quiz 2
7/20	1-4	Quadratic Functions	
7/21	Mid 1		

7/24	4-1	Systems of Linear Equations	
7/25	5-1	Systems of Linear Inequalities	
7/26	2-2	Exponential Functions	Quiz 3
7/27	2-2	Exponential Functions	
7/28	Mid 2		
7/31	2-3	Logarithmic Functions	
8/1	2-3	Logarithmic Functions	
8/2	9-1	Limits	Quiz 4
8/3	9-2	Continuity	
8/4	Mid 3		
8/7	9-3	Derivatives	
8/8	9-4 9-5	Power and Product Rules	
8/9	9-6 9-7	Chain Rules & Marginal Analysis	Quiz 5
8/10	9-6 9-7		
8/11	Final		

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/>

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>