

## Syllabus for Math Tools for Economists I (Econ 1078)

**Instructor:**

Yiting An

**Class Meeting Times:**

MTWRF 11 – 12:35am @ Econ 119

**Office Location:**

Econ 401

**Email:** Class Website:

<https://ucsub.colorado.edu/~yyan>

Relevant material to the course will be posted here.

**Office Hours:**

Tuesday & Thursday 12:35 am –15:00 pm

By Appointment as Necessary

Office hours are held for your benefit. It is an opportunity to come in and ask questions in a one-on-one or small group setting. Everyone is highly encouraged to attend office hours as often as they feel is necessary to help master the material of the course. It is my experience that those students who come to office hours with prepared questions do better in the course than they otherwise would have. If there is any reason that you cannot make these office hours I am willing to meet by appointment.

**Course Description and Objectives:**

The goal of this class is to provide students with the mathematical tools needed for future courses in economics. We will cover algebra of polynomials, functions, basic logic, sets, solving systems of equations, probability, and differentiation. For a complete list of topics see the course schedule that follows.

**Grading:**

Grades will be determined on the basis of your performance on 5 quizzes, 3 midterms, and a non-cumulative final exam.

The 5 quizzes will be scheduled on each Wednesday. The questions will be similar to the recommended homework problems. If you have completed and understand the homework from the previous week the questions should be relatively easy. Your lowest quiz grade will be dropped and the other 4 will be averaged together to obtain your quiz grade. The quiz grade is worth 20% of your over all grade.

The midterms will be administered on Fridays, June 16<sup>th</sup>, June 23<sup>rd</sup>, and June 30<sup>th</sup>, in class. Each test is worth 20% 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 **July 7<sup>th</sup>** class meeting time. The final exam is mandatory and worth 20% of your grade.

Final grading will be on a strait scale. While these grades are guaranteed I reserve the right to curve the grades upward.

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) – 20% total

3 Midterms – 20% each

Final – 20%

**Some Misconceptions about the Exam Period**

**Tentative Course Schedule:**

<b>Date</b>	<b>Course Material</b>	<b>Topics</b>	<b>Wednesday Quiz/Exam</b>
6/5			Pretest
6/6	Intro, A.1	Algebra Basics	
6/7	A.2, A.3	Polynomials	Quiz 1
6/8	A.3, A.4	Rational Expression	
6/9	A.5	Integer Exponents	
6/12	A.6, A.7	Radicals, Equations in One Variable	
6/13	1.1, 1.2	Functions, Graphs, Transformations	
6/14	1.2, 1.3	Lines	Quiz 2
6/15	1.4	Quadratic Functions	
6/16			Midterm 1
6/19	4.1	Systems of Linear Equations	
6/20	5.1	Systems of Linear Inequalities	
6/21	2.2	Exponential	Quiz 3
6/22	2.3	Logarithmic Functions	
6/23			Midterm 2
6/26	6.2, 6.3	Sets, Basic Counting Principles	

**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