

## **Econ 1078 - Math Tools for Economists I**

**Instructor:**

Dan Hickman

**Class Meeting Times:**

MWF 2:00 PM - 2:50 PM, HUMN 1B80

**Final Exam**

Tuesday, December 18<sup>th</sup> 1:30-4:00 p.m., HUMN 1B80

**Office Location:**

Econ 313 (3<sup>rd</sup> Floor of the Economics Building)

**Email:**

[Daniel.hickman@colorado.edu](mailto:Daniel.hickman@colorado.edu)

**Class Websites:**

<http://webfiles.colorado.edu/hickmand>

Material Relevant to the course will be posted here.

<http://www.colorado.edu/economics/courses/ECON1078/1078home.html>

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

**Office Hours:**

Mondays and Wednesdays 8:30-10:00 a.m., and by appointment.

Office hours are held for your benefit. You are highly encouraged to come to my office hours with prepared questions.

**Course Description and Objectives:**

The goal of this class is to provide students with

The midterms will be administered on *September 26<sup>th</sup>* and *October 31<sup>st</sup>* 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 18<sup>th</sup> (Tuesday)* from *1:30 to 4:00 pm*. The final exam is worth 30% of your grade and will consist of two parts. A “midterm” sized section will cover all of the material after midterm #3 and be worth 15% of your grade in the course. The rest of the final will cover material from the entire course.

93-100%	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

11 quizzes (Drop the lowest) – 20% total

2 Midterms – 25% each

Final -30%

### Make-Up Exams:

If you miss the midterm for some reason, there will be no make up exam. But at the end of the semester you will be offered to take an optional exam that can count for your missed midterm. Also, if you are not satisfied with one of your midterm grades you can take an optional exam, and I will replace your previous grade with the one from the optional midterm (of course if it is higher than the original).

### Tentative Course Schedule:

Week of	Course Material	Topics	Wednesday Quiz/Exam
8/27	1.1, 1.2, 1.3	Algebra Basics	Pretest
9/3	1.4, 1.5, 1.6,	Fractions and Inequalities	Quiz 1
9/10	1.7, 2.1, 2.2,	Simple Equations	Quiz 2
9/17	2,3, 2.4, 2.5	Radicals, Equations in One Variable	Quiz 3
9/24	Midterm 1, 3.1, 3.4	Logic and Mathematical Proofs	Midterm 1 (9/26)
10/1	3.5, 3.6, 3.7	Essentials of Set Theory	Quiz 4
10/8	4.1, 4.2, 4.3	Functions of One Variable	Quiz 5
10/15	11.1, 4.4, 4.5	Linear Function	Quiz 6
10/22	4.6, 4.7, 4.8	Quadratic, Polynomial and Power Function	Quiz 7
10/29	4.9, 4.10, Midterm 2	Exponential & Logarithmic Functions	Midterm 2 (10/31)
11/5	5.1, 5.2, 5.3	Shifting Graph and Functions Transform	Quiz 8
11/12	5.3, 5.4, 5.5	Inverse Functions	Quiz 9
11/19	-	No Class (Fall Break)	-
11/26	5.6, 6.1, 6.2	General Function, Slopes of Curves	Make-up midterm (11/28), Quiz 10
12/3	6.3, 6.4, 6.5	The Derivative, Increasing/Decreasing Functions	Quiz 11
12/10	Review	-	-
Final Exam on May 9 <sup>th</sup> from 7:30-10 am			

**Honor Code:**

All students of the University of Colorado at Boulder are responsible for knowing and adhering to