

Econ 1078 Spring 2016

Instructor	Patrick Gourley
Class Meetings	MWF 12:00-12:50, ECON 117
Email	patrick.gourley@colorado.edu This is the best way to contact me. I will try to respond within 24 hours to all emails.
Office	ECON 401
Office Hours	Wednesday 1:00PM - 3:00 PM or by appointment.
Course Website	The course website is accessed through Desire2Learn

"The first lesson of economics is scarcity: there is never enough of anything to fully satisfy all those who want it. The first lesson of politics is to disregard the first lesson."

- Thomas Sowell

Course Description and Objectives

Economics is an extremely mathematical discipline. This course and the following course (ECON 1088) are designed for all students interested in Economics to get well acquainted with Mathematical tools necessary for success in Economics courses. See tentative schedule for topics covered in this course.

Succeeding in a Math class

Math is learned and mastered through practice. Anyone who practices math is capable to doing math well. There will be no graded homework in this class, but those who wish to do well in this class should make use of the problems at the end of each section of the textbook. Those that do not do book problems will find it difficult to succeed in this course.

Textbook

Essential Mathematics for Economic Analysis, 4th edition, by Knut Sydsaeter, and Peter Hammond with Arne Strom is required. Economics 1088 uses the same textbook. This is a very good reference book, which you may use in the future 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 , $n\sqrt{x}$ and $x!$). Any basic scientific calculator will perform these functions. **NO GRAPHING CALCULATORS, CELL PHONES, OR COMPUTERS WILL BE ALLOWED DURING EXAMS OR QUIZZES. BASIC CALCULATORS ONLY!!!**

Laptop Note

Nothing works better than good old fashion paper and pencil for taking notes in a math class, so it is hard to imagine why anyone would need a computer in this class. In general, **NO OPEN LAPTOPS ALLOWED** during lecture.

Grading

Your grade will come from the following breakdown:

- 10% Attendance
- 20% Quizzes (Drop lowest quiz)
- 40% 2 Midterms
- 30% Final Exam (Cumulative)

Attendance

The following grades correspond to the number of absences over the course of the semester.

Absences	Grade
0	100
1	100
2	100
3	100
4	90
5	80
6	70
7	60
8	50
9	40
10	30
11	20
12	10
13	0

The first three absences do not negatively impact your grade. I do not accept "excused absences". Any absences used due to doctor's visits, club sporting events, family reunions, etc. will be considered one of the three free absences. DO NOT use up these three free absences for arbitrary reasons.

Quizzes

There will be 3 quizzes throughout the semester. I will announce quiz dates in advance during lectures. **THERE ARE NO MAKE UP QUIZZES. If you miss a quiz, then it will simply be your lowest score and it will be dropped.**

Midterms Midterm 1 Friday February 12th
 Midterm 2 Thursday March 16th

Final Sunday, May 1st 4:30PM-7:00PM

The final exam will be cumulative and cannot be dropped for any reason.

THERE ARE NO MAKEUP EXAMS!!! If you do miss an exam, then the final exam will be worth 50% of your final grade.

If you have three or more final exams scheduled on the same day, you are entitled to arrange an alternative exam time for the last exam or exams scheduled on that day. If you have this conflict, arrangements must be made with me no later than Feb 19th.

Cheating

Anyone caught cheating will at minimum fail the assignment in questions and will be referred to the University Honor Code Council.

(Very) Tentative Schedule

Week of	Course Material	Topics	Exams
Jan 11 th	1.1, 1.2, 1.3	Numbers, Powers, Rules of Algebra	
Jan 18 th	1.4, 1.5	Fractions	
Jan 25 th	1.6, 1.7, 2.1	Inequalities, Intervals & Absolute Values, Simple Equations	
Feb 1 st	2.2, 2.3, 2.4	Equations continued	
Feb 8 th	2.5, 4.1, 4.2	Nonlinear equations, Functions	Exam 1 – Feb 12 th
Feb 15 th	4.3, 4.4, 4.5	Graphs of Functions, Linear Functions, Linear Models	
Feb 22 nd	4.6, 4.7, 4.8	Quadratic Functions, Polynomials, Power Functions	
Feb 29 th	4.9, 4.10	Exponential Functions, Logarithmic Functions	
Mar 7 th	5.1, 5.2, 5.3	Shifting Graphs, New Functions from Old	
Mar 14 th	5.4, 5.5	Inverse Functions, Graphing equations, Distance in the Plane	Exam 2 – Mar 16 th
Mar 21 st	-----	Spring Break	
Mar 28 th	5.6, 3.1	General Functions, Summation Notation	

Apr 4 th	3.2, 3.3	Rules of Sums, Double Sums	
Apr 12 th	3.4, 3.5	Logic, Mathematical Proofs	
Apr 18 th	3.6, 3.7	Set Theory, Induction	
Apr 25 th	Review/Catchup	Review/Catchup	

Final Exam on Sunday, May 1st 4:30PM-7:00PM

Additional Notes:

Students with Disabilities

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 be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Center for Community N200, and <http://www.Colorado.EDU/disabilityservices>.

If you have a temporary medical condition or injury, see guidelines at <http://www.colorado.edu/disabilityservices/go.cgi?select=temporary.html>.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at <http://www.colorado.edu/disabilityservices>.

Religious Observance Policy

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. If you have a conflict, please contact me at the beginning of the term so that we can make proper arrangements. See full details at http://www.colorado.edu/policies/fac_relig.html.

Classroom Behavior Policy

Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran's status, sexual orientation, gender, gender identity, and gender expression, age, disability, and nationalities.

See policies at <http://www.colorado.edu/policies/classbehavior.html> and at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code.

Discrimination and Harassment Policy

The University of Colorado at Boulder Discrimination and Harassment Policy and Procedures, the University of Colorado Sexual Harassment Policy and Procedures, and the University of Colorado Conflict of Interest in Cases of Amorous Relationships Policy apply to all students, staff, and faculty. Any student, staff, or faculty member who believes s/he has been the subject of sexual harassment or discrimination or harassment based upon race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127, or the Office of Student Conduct (OSC) at 303-492-5550. Information about the ODH, the above referenced policies, and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>.

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; 303-735-2273). 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/>.