

MATH TOOLS FOR ECONOMISTS I

ECON 1078 - 001

Summer 2012

Instructor: Luis Castro
Time and location: MTWRF 2:30 - 4:05pm @ ECON 117
Textbook: *Essential Mathematics for Economic Analysis*, 3d edition,
by Knut Sydsæter and Peter Hammond, Prentice Hall, 2008.
Office: Economics 414
Office Hours: W, R, F from 1:30 - 2:15 or by appointment
Final Exam: Friday, July 6th
Websites: <http://spot.colorado.edu/~castrope>
Past exams are available at:
<http://www.colorado.edu/economics/courses/ECON1078/1078home.html>
Student Resources are available at:
<http://www.pearsoned.co.uk/Sydsaeter>
Email: Luis.Castropenarrieta@colorado.edu

Content

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, solving systems of equations, logic, probability, and differentiation. As any math class, the most effective way to learn is to practice.

Grading

Your grade in this course will depend upon your performance in exams and how well you do your in-class assignments and homework. Your grade will come from the following breakdown: Quizzes and In-class Assignments (lowest dropped) 10% total Problem sets: 20% Midterm 1 and 2: 40% (20% each) Final exam (Cumulative) 30% Anything covered in class is fair game for exams.

Grading Scale

Score	Grade	Score	Grade
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

Quizzes and In-class Assignments

Three quizzes will be on specified days covering material from class. I will intersperse several in-class assignments randomly throughout the term. You will be allowed to work on them in class and turn them in by the end of class as well.

They are designed to give you appropriate practice and will be similar to quiz and test questions. They will also serve as a substitute for an attendance policy. You will not be allowed to make these up for any reason and I will drop the lowest of these grades.

Problem Sets

For each chapter, I will suggest a list of problems from the book that will be good practice for the exams. These problem sets should be handed in before starting the class of due day. Please be on time. There are no makeup problem sets. If you miss one, it will lower your problem set grade accordingly. You should show all your work to get the answer for each problem. If you do not show your own work for it, it will not be graded.

Exams

We will take a total of three exams in this course. The midterm exams will be held on June 15th and June 29th. These exams will be held during the normal class time. If you miss a midterm exam, the weight of that exam will carry over onto the final. The final exam will be held on Friday July 6th, also at the normal exam time. The final exam will be cumulative.

Tentative Schedule (Subject to Change)

Week	Book	Topic	HW/ Exam
6/4	Chapter 1	Algebra Basics	None
6/11	Chapters 2 & 3	Equations, Summation, and Logic	Quiz 1 6/11: Exam: 6/15
6/18	Chapters 3 & 4	Logic, Probability, and Functions	Quiz 2 6/22
6/25	Chapter 4	Functions,	Exam 2: 6/29
7/2	Chapter 5	Graphs	Quiz 3: 7/2 Final Exam: 7/6

Important Dates

Quiz 1 - Monday, June 11

Quiz 2 - Friday, June 22

Quiz 3 - Monday, July 2

Midterm 1 - Friday, June 15

Midterm 2 - Friday, June 29

Final - Friday, July 6 2:30-4:05 PM

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 may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and www.colorado.edu/disabilityservices. 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 www.colorado.edu/disabilityservices.

Religious Observation Policy

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. If you have a conflict, please contact me at the beginning of the term so we can make proper ar-

rangements.

Classroom Behavior Policy

Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty has the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions.

Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at <http://www.colorado.edu/studentaffairs/judicialaffairs/code.html>.

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/>.

Discrimination & Harassment Policy

The University of Colorado Policy on Sexual Harassment applies to all students, staff and faculty. Sexual harassment is unwelcome sexual attention. It can involve intimidation, threats, coercion, or promises or create an environment that is hostile or offensive. Harassment may occur between members of the same or opposite gender and between any combinations of members in the campus community: students, faculty, staff, and administrators. Harassment can occur anywhere on campus, including the classroom, the workplace, or a residence hall. Any student, staff or faculty member who believes s/he has been sexually harassed should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH and the campus resources available to assist individuals who believe they have been sexually harassed can be obtained at: <http://www.colorado.edu/odh/>.