

Syllabus for Math Tools for Economists II (Econ 1088-001) - Spring 2010

Instructor:

Rob Tischer

Class Meeting Times:

M W F 2:00pm-2:50pm HUMN 135

Final Exam

Tuesday, May 4, 2010 1:30pm-4:00pm

Office Location:

Norlin N520 (Norlin Library 5th floor NW Tower)

Email:

robert.tischer_at_colorado.edu

This is the best way to contact me, if you won't get a reply within 24 hours please assume that I didn't get your email and resend it.

Class Website:

<http://webfiles.colorado.edu/tische/econ1088/index.html>

This is the course Web page.

[ECON1088 Common Page](#)

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

Office Hours:

Monday 1:00pm-2:00pm

Wednesday 12:00pm-1:00pm

By appointment

Course Description and Objectives:

Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. These skills are used on "real world" problems, and illustrated with computer

assignments. Prereq., ECON 1078 or instructor consent. Similar to MATH 1080, 1081, 1090, 1100, 1300, 1310, and APPM 1350.

Textbook:

Essential Mathematics for Economic Analysis, 3rd edition, by Knut Sydsater, and Peter Hammond is required. 1078 adopts the same textbook. This is a very good reference book, which can always help to refresh your knowledge of algebra and calculus.

Calculator Note:

You will be allowed to use simple calculators for arithmetic (adding, subtracting, dividing, and multiplying). **Absolutely no graphing calculators.** This is not a course in how to do calculus using a calculator.

Grading:

Grades will be determined on the basis of your performance on 5 quizzes, team assignments, 2 midterms, and a final exam. The quiz grade is worth 20% of your over all grade, and the team assignment grade is worth 20% of your overall grade.

The midterms will be administered on February 10 and March 31 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 *May 4th (Tue.)* from 1:30pm to 4pm. The final exam is worth 20% of your grade. The final exam will not be cumulative. If you have three final exams scheduled for this day, and this is the last of your exams, you can take the final on another day. Please speak with me as soon as possible if this is the case.

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 –	20% of total
Team Assignments -	20% of total
2 Midterms –	40 % of total (20% each of total)
Final -	20% of total

Make-Up Exams:

There will be NO make-up assignments, quizzes, or exams for this class If you miss a midterm exam with a documented excuse, the weight given your final exam will be increased. If you miss a quiz, your quiz grade average will be determined based upon 4 quizzes.

Tentative Course Schedule:

Week of	Course Material	Topics	Quiz/Exam
1/11	6.1, 6.2, 6.3	Slopes, Derivatives, Tangents, Increasing/Decreasing Functions	
1/18	6.4, 6.5, 6.6	Rates of Change, Limits, Simple Rules	Quiz 1
1/25	6.7, 6.8, 6.9	Sums, Products, Quotients, Chain Rule, Higher Orders	Team 1
2/1	6.10, 6.11, 7.1	Exponentials, Logarithms, Implicit Differentiation	Quiz 2
2/8	7.4, 7.5 Exam 1	Linear and Polynomial Approx	Exam 1 (2/10)
2/15	7.11, 8.1, 8.2, 8.3	Infinite Sequences, L'Hopital's, Simple Tests, Examples	
2/22	8.4, 8.5, 8.6	Extreme-Value, Examples. Local Extrema	Quiz 3
3/1	8.7, 7.4*, 9.1	Inflection Points, Differentials*, Indefinite Integrals	Team 2
3/8	9.2, 9.3	Definite Integrals, Properties,	Quiz 4
3/15	9.5, 9.6	Integration by Parts, Substitution	
3/22	-	Spring Break (no classes)	
3/29	9.7, 11.5, Exam 2	Infinite Integrals, Functions of N Variables	Exam 2 (3/31)
4/6	11.6, 13.1, 13.2	Partial Derivatives, Multi-variable Optimization	

4/13	13.3, 14.1	Local Extreme Points, Lagrange Multiplier	Team 3
4/20	14.5, 14.6	More Variables/Constraints, Comparative Statics	Quiz 5
4/27	Review, Catch-up	-	-

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/>

Expectations of Classroom Behavior:

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

See policies at

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

Absences:

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. Please notify me as soon as possible so that the proper arrangements can be made. Students can see full details at http://www.colorado.edu/policies/fac_relig.html

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>