

36-471, MATH ECON  
Spring 2008

INSTRUCTOR: M. Kevin McGee  
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OFFICE HOURS: MWF 1:50-3; TR 4:30-5:30  
ALSO AVAILABLE: TR 2-3: MWF 3-5

TEXT: Hess: Using Mathematics in Economic Analysis

COURSE PREREQS: Math 171 or 206; a grade of "C" or better in Econ 204 and 206.

COURSE OBJECTIVES: This course is primarily aimed at Econ or Finance majors planning to apply to Graduate School in Econ or Finance. Its goal is to make those students proficient in the use of the mathematical techniques most commonly used in Economic and Finance theoretical models at the Graduate level.

Students interested in Graduate School in Econ or Finance and **strongly** encouraged to take Calc I-II-III and Linear Algebra, and should take Econometrics as well as this course.

WEEK	TOPIC	TEXT CHAPTERS
1 Feb 5-7	Introduction; Math Review	Ch. 1
2 Feb 12-14	Math Review	Ch. 2
3 Feb 19-21	Competitive Markets (Static)	Ch. 3
4 Feb 26- 28	Gen. Equilib. & Systems of Equations	Ch. 5
5 Mar 4-6	<u>TEST 1</u>	
6 Mar 11-13	Theory of the Firm: SR Optima	Ch. 6
7 Mar 18-20	Competitive Industries, Monopoly	Ch. 7,8
8 Apr 1-3	<u>TEST 2</u>	
9 Apr 8-10	Firm in LR: Constrained Optima	Ch. 10
10 Apr 15-17	Constrained Optima	Ch. 10
11 Apr 22-24	<u>TEST 3</u>	
12 Apr 29- May 1	The Consumer Model	Ch. 12
13 May 6-8	Inequality Constraints	Ch. 11
14 May 13-15	<u>TEST 4</u>	

Grading:

Four (4) tests will be given, each accounting for roughly 25% of your grade. All four tests will be entirely mathematical problem solving. To prepare you for the exams, you will be assigned a series of (ungraded) problem sets throughout the semester.