Department of Economics
Hacettepe University
ECO137 (03) Mathematics for Economists I
Fall 2008

Course Information

Instructor:	Dr. Shihomi Ara-Aksoy
Office:	Department of Economics
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Time/Place: **Fridays, 13:00 – 15:45 @ D 7**

Office Hours: Mondays, 16:00 – 17:00, Tuesdays 13:00-14:00
or by appointment

Course Website: **http://yunus.hacettepe.edu.tr/~sara**

Course Description/Objectives
This course covers the fundamental mathematical concepts used in economics. Different types of functions and their properties, differentiation and derivatives used in practice, the logic of optimization, integration, the concept of present values will be discussed. Many of the mathematical concepts might be already familiar to you from your high school mathematics classes. In this course, however, try to focus on understanding each concept, rather than memorizing the formulas.
The mathematical concepts taught in this class will be the foundation of other economics courses. Therefore, make sure to understand each subject matter clearly.

Course Requirements	**A:**	**Three In-class Quizzes (5% each)**
	B:	**Two Midterm Exams (25% each)**
	C:	**Final Exam (35%)**

Class Participation
Although the attendance will not be taken, attend the class regularly. The quizzes will be conducted without any prior notice. Chatting in the class causes negative externalities to other students in the classroom, and should be strictly refrained. The instructor reserves the right to ask any students with inappropriate behavior to leave the classroom.

Exams	1st Midterm Exam:	1st week of November
	2nd Midterm Exam:	December 5th
	Final Exam:	To be announced

Textbook
Knut Sydsaeter and Peter Hammond, *Essential Mathematics for Economics Analysis*, third edition, Prentice Hall, 2008.

Make-up Exam No makeup exam will be given unless a legally acceptable document (such as medical report) is submitted. Validity of such document will be examined.

Academic Misconduct
Please read the relevant material at http://www.plagiarism.org/. Detected plagiarism throughout the coursework will cause the student to be punished according to the University rules. The students are expected to know what plagiarism is and lack of knowledge is not an acceptable excuse.

Disabilities
Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific need.

<u>Course Schedule</u>

Week	Date	*Topic*	Readings
Week 1	Sep. 26		
Week 2	Oct.3	**No Class**	
Week 3	Oct. 10	*Functions of One Variable*	Ch. 4
Week 4	Oct. 17	*Properties of Functions*	Ch. 5
Week 5	Oct. 24	*Differentiation*	Ch. 6
Week 6	Oct. 31	*Differentiation* *Derivatives in Use*	Ch. 6 Ch. 7
Week 7	1st week of Nov.	**1st Midterm Exam**	
Week 8	Nov. 14	*Derivatives in Use*	Ch. 7
Week 9	Nov. 21	*Single-Variable Optimization*	Ch. 8
Week 10	Nov. 28	*Single-Variable Optimization* *Integration*	Ch. 8 Ch. 9
Week 11	Dec. 5	**2nd Midterm Exam**	
Week 12	Dec. 12	Most probably no class	
Week 13	Dec. 19	*Integration*	Ch. 9
Week 14	Dec. 26	*Interest Rates and Present Values*	Ch. 10
Final Exam		Comprehensive	