

Department of Economics
Hacettepe University
ECO137 (03) Mathematics for Economists I
Winter 2009

Course Information

Instructor: Dr. Shihomi Ara-Aksoy
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Time/Place: **Fridays, 13:00 – 15:45 @ D 9**

Office Hours: Wednesdays: 17:00-18:00, Fridays: 16:00-17:00, or by appointment

Course Website: <http://yunus.hacettepe.edu.tr/~sara>, <http://www.shihomiaksoy.org>

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

1	Two Quizzes (5% each)
2	Two Midterm Exam (25% each)
3	Final Exam (40%)

Class Participation

- Although the attendance will not be taken, attend the class regularly. The quizzes will be conducted without any prior notice.
- Bring a calculator to each class. Especially for the quizzes, you will need one.
- In the end of each chapter, I will assign “Homework” from the exercises questions of the textbook. You are NOT required to hand them in. However, you are responsible for going over each question. Consider them as the practice questions for the quizzes and exams.
- There will NOT be any make-up quiz.

Exams

1 st Midterm Exam:	To be announced
2 nd Midterm Exam:	To be announced
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.

Course Schedule

Week	Date	<i>Topic</i>	Readings
Week 1	Oct. 9	<i>Introduction</i>	
Week 2	Oct.16	<i>Functions of One Variable</i>	Ch. 4
Week 3	Oct. 23	<i>Properties of Functions</i>	Ch. 5
Week 4	Oct. 30	<i>Differentiation</i>	Ch. 6
Week 5	Nov. 6	<i>Derivatives in Use</i>	Ch. 7
Week 6	Nov. 13	<i>Derivatives in Use</i>	Ch. 7
Week 7	TBA	1st Midterm Exam	
Week 8	Nov. 27	No Class	
Week 9	Dec. 4	<i>Single-Variable Optimization</i>	Ch. 8
Week 10	Dec. 11	<i>Single-Variable Optimization</i>	Ch. 8
Week 11	Dec. 18	<i>Integration</i>	Ch. 9
		2nd Midterm Exam	
Week 12	Dec. 25	<i>Integration</i>	Ch. 9
Week 13	Jan. 1	No Class	
Week 14	Jan. 8	<i>Interest Rates and Present Values</i>	Ch. 10
	TBA	Final Exam	