

Department of Economics
Hacettepe University
ECO137 Mathematics for Economists I
Fall 2015/2016

Course Information

Instructor: Dr. Shihomi Ara-Aksoy
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Time/Place: **Wednesdays, 13:00 – 15:45 @ A3**

Office Hours: Tuesdays 15:45 - 16:45, Fridays 12:30 - 13:30

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 Midterm Exams (30% each)
2	Final Exam (40%)

Textbook

Knut Sydsaeter and Peter Hammond, *Essential Mathematics for Economics Analysis*, 3rd or 4th edition, Prentice Hall, 2008, 2012.

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	Topic	Readings
Week 1	Sep. 16	<i>Introduction</i>	
Week 2	Sep. 23	No Class	
Week 3	Sep. 30	<i>Functions of One Variable</i>	Ch. 4
Week 4	Oct. 7	<i>Functions of One Variable</i>	Ch. 4
Week 5	Oct. 14	<i>Properties of Functions</i>	Ch. 5
Week 6	Oct. 21	<i>Differentiation</i>	Ch. 6
Week 7	Oct. 28	No Class	
Week 8	TBA	1st Midterm Exam	
Week 9	Nov. 11	<i>Derivatives in Use</i>	Ch. 7
Week 10	Nov. 18	<i>Derivatives in Use</i>	Ch. 7
Week 11	Nov. 25	<i>Derivatives in Use</i>	Ch. 7
Week 12	Dec. 2	<i>Single-Variable Optimization</i>	Ch. 8
	TBA	2nd Midterm Exam	
Week 13	Dec. 9	<i>Single-Variable Optimization</i>	Ch. 8
Week 14	Dec. 16	<i>Integration</i>	Ch. 9
Week 15	Dec. 23	<i>Integration</i>	Ch. 9
	TBA	Final Exam	