

ECON 122 – Introduction to Mathematics for Economists II

CONTACT INFORMATION

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COURSE DESCRIPTION

This is an undergraduate course on mathematical economics. This course helps us understand mathematical concepts used in economics. Topics include linear models and matrix algebra, comparative statics and the concept of derivative, rules of differentiation, partial differentiation, and optimization problems.

COURSE TEXTBOOK

Textbook is “*Fundamental Methods of Mathematical Economics*” by **Alpha C. Chiang** and **Kevin Wainwright**, 4th edition. ISBN: 007-123823-9. Publisher: McGraw-Hill.

GRADING

1. Two non-cumulative **midterm exams**.
2. A cumulative **final exam**.
3. **Quizzes**: Quizzes will be given in class. There are 3 quizzes. Lowest quiz grade is dropped.
4. **Attendance**: All students are expected to attend each class. Attendance will be taken randomly at any time during any class. At the beginning of the semester you have 100 as your attendance grade. Each missed attendance will cost you 10 points.

If you are repeating this course, in order to be waiver of attendance, **an approval from the faculty board is required**. You can read the related university regulation below.

“MADDE 18 – (1) **Derslere devam esastır**. Dönem sonu sınavına katılabilmek için; teorik ders saatlerinin en az %70'ine, uygulama ders saatlerinin de en az %80'ine devam zorunludur. Devamsızlıkları nedeniyle sınava giremeyecek olan öğrenci listesi, dönem sonu sınavlarından önce ilgili bölüm başkanlığı tarafından ilan edilir. Tekrarlanan derslerde önceki dönemde devam koşulu yerine getirilmiş ise, ilgili **yönetim kurulu kararı** ve ara sınavlara girmek kaydıyla devam koşulu aranmayabilir.”

Assignments are weighted as follows:

Midterm Exam #1	20%
Midterm Exam #2	20%
Final Exam	40%
Quizzes	10%
Attendance	10%

The following grading scale
will be adhered to in this class:

A	96-100
A-	91-95
B+	84-90
B	77-83
B-	70-76
C+	65-69
C	60-64
F	<60

RULES AND REGULATIONS

1. There is **no make-up for quizzes.**
2. For exams and quizzes, you **cannot** use any electronic device including calculators.
3. **Dictionaries are not allowed** during exams and quizzes.
4. There is **no extra credit assignment or homework** in this course.

COURSE CALENDER

Comparative-Static Analysis of General-Function Models	Chapter 8
Optimization: A Special Variety of Equilibrium Analysis	Chapter 9
Exponential and Logarithmic Functions	Chapter 10
The Case of More than One Choice Variable	Chapter 11
Optimization with Equality Constraints	Chapter 12
Further Topics in Optimization	Chapter 13
Economic Dynamics and Integral Calculus	Chapter 14
Continuous Time: First-Order Differential Equations	Chapter 15
Higher Order Differential Equations	Chapter 16
Discrete Time: First-Order Difference Equations	Chapter 17
Higher Order Difference Equations	Chapter 18