

Department of Economics
Hacettepe University
ECO240 Statistics II
Spring 2015-2016
Course Information

Instructor: Dr. Shihomi Ara-Aksoy
Office: Department of Economics
Email: sara@hacettepe.edu.tr

Class Time/Place: Thursdays 9:00 – 11:45 @ D12

Office Hours: Wednesdays: 15:30 - 16:30, or by appointment

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

Course Description/Objectives

The purpose of this course is to introduce important concepts of statistics, such as sampling, estimation, hypothesis testing and regression analysis. Students are expected to learn the methods of inferential statistics, the logics of hypothesis testing and the basic concept of regression analysis. The topics covered in this class will be important building blocks especially for the econometrics classes which students will take in the third year. Make sure to understand each concept clearly. Students will also learn how to use "R" program for basic statistics problems.

Course Requirements

Midterm Exam I	25 %
Midterm Exam II	25 %
Final Exam	30 %
Two R Homework	5 % each
Attendance¹	10 %

¹ Surprise attendances will be taken several times during the semester. Better attend regularly!

Textbook

Paul Newbold, William Carlson and Betty Thorne, *Statistics for Business and Economics*, Seventh edition, Pearson Education, 2009. (If you have 6th edition, you do not have to buy 7th edition.)

Homework

Two homework assignments are planned to be assigned. The objective of the assignments is to practice the concepts learned in the classes by using a free software "R". Homework questions will be posted on the course web site with the specific due dates. **No late homework will be accepted. You should do these assignments all by yourself. (Even partially) copied homework (including the ones being copied) will get 0. Do not copy-paste others' homework. Do not give your homework answers to others.**

Make-up Exam

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

Caution! Make-ups and Re-take exams are designed to be more difficult than the regular exams due to the extra time the students could earn for exam preparation. Try your best to take the exams on time.

Grading

Final grade will be given entirely based on your scores under a fair and single grading policy. None of students' "special situations/needs" (e.g. scholarship, graduation, financial condition, family situation etc.) will affect your grade. No exception. If you need a certain grade, work hard.

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 the instructor privately to discuss your specific need.

Course Schedule

Class	Date	Topic	Readings
1	Feb.11	<i>Distributions of Sample Statistics (1)</i>	Ch. 6
2	Feb.18	<i>Distributions of Sample Statistics (2)</i>	Ch. 6
3	Feb.25	<i>Confidence Interval Estimation: One Population (1)</i>	Ch. 7
4	Mar.3	<i>Confidence Interval Estimation: One Population (2)</i>	Ch. 7
5	Mar.10	<i>Confidence Interval Estimation: Further Topics</i>	Ch. 8
6	Mar.17	<i>Hypothesis Tests of a Single Population (1)</i>	Ch. 9
7	Mar.24	<i>Hypothesis Tests of a Single Population (2)</i>	Ch. 9
8	TBA	Midterm Exam I	
9	Apr. 7	<i>Two Population Hypothesis Tests (1)</i>	Ch. 10
10	Apr. 14	<i>Two Population Hypothesis Tests (2)</i>	Ch. 10
11	Apr. 21	<i>Two Variable Regression Analysis (1)</i>	Ch. 11
12	Apr. 28	<i>Two Variable Regression Analysis (2)</i>	Ch. 11
	TBA	Midterm Exam II	
13	May 5	<i>Comparison of Subpopulation Means</i>	Ch. 15
14	May 12	<i>Comparison of Subpopulation Means</i>	Ch. 15