

Department of Economics  
Hacettepe University  
**ECO240 Statistics II**  
*Spring 2017-2018*  
**Course Information**

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

**Class Time/Place:** Fridays 13:00 – 15:50 @ D10

**Office Hours:** Tuesdays: 11:45 - 12:30, 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

<b>Midterm Exam</b>	<b>30 %</b>
<b>Final Exam</b>	<b>40 %</b>
<b>Two R Homework</b>	<b>10 % each</b>
<b>5 Quizzes</b>	<b>10 %</b>

<Important notes on Quizzes>

*\*There will not be any attendance points.*

*\*There is no make-up quiz provided for any reason.*

*\*If you copy someone's work or offer someone to copy your quiz for once, you will lose entire quiz point (10 points). No negotiation. Don't copy. Don't show.*

*Quizzes will be conducted at 15:30 if there is one on the day. If you have another class during this class hour, come at 15:30 to take the quiz, together with the rest of the class.*

<Important notes on R Homework>

\*A group of maximum 4 students should be formed.

\*Do not copy/discuss/show/send e-mails with any students from different group. I will announce the exact definition of "copying" in details when 1st RHW is assigned.

\*If you are caught copying, you will lose entire HW points (10%). BOTH COPIED AND BEING COPIED WILL GET ZERO. NO NEGOTIATION.

### Textbook

**(Required) Download** the textbook for FREE "OpenIntro Statistics 3rd Edition" from [https://www.openintro.org/stat/textbook.php?stat\\_book=os](https://www.openintro.org/stat/textbook.php?stat_book=os)

Paul Newbold, William Carlson and Betty Thorne, *Statistics for Business and Economics*, Seventh edition, Pearson Education, 2009. (Any edition) [Optional]

**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.

**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**

Week	Topic	OpenIntro Reading	Newbold Reading
1	<i>Distributions of Sample Statistics (1)</i>	Ch. 4	Ch. 6
2	<i>Distributions of Sample Statistics (2)</i>	Ch. 4	Ch. 6
3	<i>Confidence Interval Estimation: One Population (1)</i>	Ch. 4, 5	Ch. 7
4	<i>Confidence Interval Estimation: One Population (2)</i>	Ch. 4, 5	Ch. 7
5	<i>Hypothesis Tests of a Single Population (1)</i>	Ch. 4, 5	Ch. 9
6	<i>Hypothesis Tests of a Single Population (2)</i>	Ch. 4, 5	Ch. 9
7	<i>Confidence Interval Estimation: Further Topics</i>	Ch. 6	Ch. 8
8	<b>Midterm Exam</b>		
9	<i>Two Population Hypothesis Tests (1)</i>	Ch. 6	Ch. 10
10	<i>Two Population Hypothesis Tests (2)</i>	Ch. 6	Ch. 10
11	<i>Two Variable Regression Analysis (1)</i>	Ch. 7	Ch. 11
12	<i>Two Variable Regression Analysis (2)</i>	Ch. 7	Ch. 11
13	<i>Two Variable Regression Analysis (3)</i>	Ch. 7	Ch. 11
14	<i>Comparison of Subpopulation Means</i>	Ch. 5	Ch. 15

