Department of Economics
Hacettepe University
ECO239 Statistics I
Fall 2016/2017

Course Information

Instructor: Dr. Shihomi Ara-Aksoy
Office: Department of Economics
Email: sara@hacettepe.edu.tr
Time/Place: **Tuesdays, 9:00-11:45, A3**
Office Hours: Tuesdays 12:30 - 13:15 or by appointment
Course Website: **http://www.shihomiaksoy.org**

> I usually respond to your e-mails fairly quickly. If you do not get my response, it is usually the case that the answer to the question you asked is on this syllabus.

Course Description/Objectives
The purpose of this course is to introduce basic concepts of statistics. Methods of describing data, probability, discrete and continuous random variables and their probability distributions will be discussed. Students are expected to learn the tools for describing and analyzing given data and to be acquainted with probability theory and probability distributions. Since the topics covered in this course will be a foundation for the courses such as Statistics II and Econometrics. make sure to understand each concept clearly.

We have designed this course to provide each student strong hands-on experience with data analysis, which is a strong requirement of this data-driven economy/world. R program is introduced and used thoroughly during ECO239 and 240. By the end of this year, students are expected to conduct fundamental data analysis comfortably by using R. By following up the progress of learning closely in each class, we expect to increase the active participation and the solid comprehension of each contents discussed in the classroom.

Course Requirements

	Requirements	Counts	Points	Total Points
1	Quiz	10 times	2 points each	20 points
2	Group Assignment	4 times	5 points each	20 points
3	Midterm Exam	Once	30 points	30 points
4	Final Exam	Once	30 points	30 points

Important Note: *If you are taking this course for the second (third) time and not being able to attend the class regularly, you have opportunity to take them between 11:45-12:00 at A3 on the same day of the lecture you miss. Other kind of make-up will NOT be provided.*

Formation of Groups
- Each group should contain maximum 4 students.
- I expect the same group to be sustained for all the assignments.
- No free-riders allowed. For each assignment/project, contributions of each member should be clearly/honestly declared.
- If you encounter any problem working as a group, bring the problem to the instructor ASAP.

Textbook
(Required) Download the textbook for FREE "OpenIntro Statistics 3rd Edition" from

https://www.openintro.org/stat/textbook.php?stat_book=os

(Optional) Paul Newbold, William Carlson and Betty Thorne, *Statistics for Business and Economics*, Seventh (Eighth) edition, Pearson Education, 2010 (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.

Grading
Grading is solely based on your performance of quizzes, assignments and exams. **No exception**.

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	OpenIntro	Newbold	R HW
Week 1	Oct. 4	*Why Study Statistics?*			
Week 2	Oct. 11	*Using Graphs to Describe Data*	Ch.1	Ch. 1	
Week 3	Oct. 18	*Using Numerical Measures to Describe Data*	Ch.1	Ch. 2	R HW1
Week 4	Oct. 25	*Using Numerical Measures to Describe Data*	Ch.1	Ch. 2	
Week 5	Nov. 1	*Elements of Chance: Probability Methods (1)*	Ch.2	Ch. 3	R HW1 due/ R HW 2
Week 6	Nov. 8	*Elements of Chance: Probability Methods*	Ch.2	Ch. 3	
Week 7	Nov. 15	*Elements of Chance: Probability Methods*	Ch.2	Ch. 3	R HW 2 due
Week 8	TBA	**1ˢᵗ Midterm Exam**			
Week 9	Nov. 29	*Discrete Probability Distributions (1)*	Ch.3	Ch. 4	
Week	Dec. 6	*Discrete Probability Distributions (2)*	Ch.3	Ch. 4	R HW 3
Week	Dec. 13	*Discrete Probability Distributions (3)*	Ch.3	Ch. 4	
Week	Dec. 20	*Continuous Probability Distributions (1)*	Ch.3		R HW 3 due/ RHW 4
	TBA	**2ⁿᵈ Midterm Exam**			
Week	Dec. 27	*Continuous Probability Distributions (2)*	Ch.3	Ch. 5	
Week	Jan. 3	*Continuous Probability Distributions (3)*	Ch.3	Ch. 5	R HW 4 due
	TBA	**Final Exam**			