ECO239 Statistics I
Fall 2015/2016

Course Information

Instructor: Dr. Shihomi Ara-Aksoy
Office: Department of Economics
Office Phone: 297 86 50 / ext 117
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Time/Place: **Thursdays, 9:00-11:45, 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
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. The basic operations of R-program are also introduced. 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.

Course Requirements

1	Two R Homework	5 % each
2	Two Midterm Exams	25 % each
3	Final Exam	40 %

Textbook
Paul Newbold, William Carlson and Betty Thorne, *Statistics for Business and Economics*, Seventh (Eighth) edition, Pearson Education, 2010 (2012).

R Homework
http://www.r-project.org/. Detailed instructions will be posted on the course webpage. Any copied homework will gain 0 point (applies for those who copied AND provided their HW for copying).

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 homework 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	Readings	R HW
Week 1	Sep. 17	*Why Study Statistics?*		
Week 2	Sep. 24	**No Class** (Kurban Bayramı)		
Week 3	Oct. 1	*Using Graphs to Describe Data*	Ch. 1	
Week 4	Oct. 8	*Using Numerical Measures to Describe Data (1)*	Ch. 2	
Week 5	Oct. 15	*Using Numerical Measures to Describe Data (2)* *R Program Tutorial*	Ch. 2	R HW 1 will be posted.
Week 6	Oct. 22	*Elements of Chance: Probability Methods (1)*	Ch. 3	
Week 7	Oct. 29	**No Class** (Cumhuriyet Bayramı)		
Week 8	TBA	**1ˢᵗ Midterm Exam**		
Week 9	Nov. 12	*Elements of Chance: Probability Methods (2)*	Ch. 3	R HW 1 due on Nov. 13 (Friday)
Week 10	Nov. 19	*Discrete Probability Distributions (1)*	Ch. 4	
Week 11	Nov. 26	*Discrete Probability Distributions (2)*	Ch. 4	R HW 2 will be posted.
Week 12	Dec. 3	*Discrete Probability Distributions (3)*	Ch. 4	
	TBA	**2ⁿᵈ Midterm Exam**		
Week 13	Dec. 10	*Continuous Probability Distributions (1)*	Ch. 5	
Week 14	Dec. 17	*Continuous Probability Distributions (2)*	Ch. 5	R HW 2 due on Dec. 18 (Friday)
Week 15	Dec. 24	*Continuous Probability Distributions (3)*	Ch. 5	
	TBA	**Final Exam**		