ECON 203: Statistics
Spring 2019

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Teaching Assistant: TBA

Course Description
In this course, we will cover topics such as descriptive statistics, basics of probability, confidence intervals, hypothesis tests, correlation, and regression analysis.

Grading
Course grades will be based on three equally weighted exams. All exams are closed book. However, each student is allowed to bring one page (one-sided) formula sheet and a calculator.

Homework assignments will be posted on Blackboard. Although they will not be collected and graded, homework problems are important practice for the exams.

Textbook
The following textbook is required:

Tutoring

The Learning Center provides free tutoring for statistics. Call 973-353-5608 for more information.

Course Outline

1 Course Introduction
   • Chapter 1.

2 Descriptive Statistics
   • Chapters 2–4.

3 Probability, Sample Spaces and Events
   • Chapter 5, section 6.1.

4 Rules of Probability
   • Sections 6.2-6.6.

5 Expectations, Probability Distributions
   • Section 7.1, chapter 8.

6 Exam 1

7 Normal Distribution
   • Sections 9.1-9.2, 9.4.

8 Sampling, Sampling Distributions
   • Sections 10.6-10.8.
9 Estimation
   • Sections 11.1-11.2, 11.4.

10 Hypothesis Tests
   • Sections 12.1-12.4, 14.1-14.2.

11 Exam 2

12 Hypothesis Tests: Comparing Two Groups
   • Sections 12.5, 14.3.

13 Correlation
   • Sections 17.1-17.2.

14 Regression
   • Chapter 16.

15 Final Exam