

ECON 203: Statistics

Fall 2020

Professor Jun Xiang

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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 class attendance (10%), midterm exam (40%), and final exam (50%).

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

Textbook

The following textbook is **required**:

- John Freund and Benjamin Perles. 2007. *Modern Elementary Statistics* (12th edition). Prentice Hall.

Tutoring

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

Course Outline

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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 Midterm Exam

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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 Hypothesis Tests: Comparing Two Groups

- Sections 12.5, 14.3.

12 Correlation

- Sections 17.1-17.2.

13 Regression

- Chapter 16.

14 Final Exam