

Fordham University
Department of Economics-Rose Hill

ECON 2140

Statistics I in Economics

Summer .
Dealy Hall-Room 117-I
Office hours: MTW 4.00-6.00 pm

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Required Text:

Ronald M. Weiers, *Introduction to Business Statistics*. 2011, 7th Edition.
South-West and Cengage Learning Publishers
ISBN-13: 978-0-538-45219-9
ISBN-10: 0-538-45219-6

Course Objective: The primary objective of this course is to develop an understanding of elementary statistical theories and concepts. This course has a prerequisite of one semester of Calculus and/or Finite Mathematics. The examples used throughout the lectures will be geared toward economic and business thinking.

Class Policy: Students will be responsible for everything covered in class, whether or not you attend. Attendance will be taken regularly and will be calculated as part of the participation grade. Unexcused absences, use of cell phones in class, disruptive behavior and lateness to class will be counted against your participation grade. Unapproved absences will be scored at zero. Occasionally, additional reading material will be handed out in class.

Course Grades:	Midterm	40 %
	Homework	10%
	Final	50%

Examinations: No make-up Exams will be given. Absence from a midterm or final exam means a failing grade unless there are compelling circumstances. These exams will be taken in class, focusing mainly on issues discussed during lectures.

Homework: Students are expected to hand in their homework assignments. Any assignment turned in late will be penalized half a letter grade for each day late. There will be random quizzes during the Semester. In addition, exercises will be assigned for each chapter to be discussed in class. Working together on homework assignments can be helpful, but copying another student's assignment is cheating.

OUTLINE:

Part 1: BUSINESS STATISTICS: INTRODUCTION AND BACKGROUND

- Chapter 1. A preview of Business Statistics
- Chapter 2. Visual Description of Data
- Chapter 3. Statistical Description of Data
- Chapter 4. Data Collection and Sampling Methods

Part 2: PROBABILITY

- Chapter 5. Probability: Review of Basic Concepts
- Chapter 6. Discrete Probability Distributions
- Chapter 7. Continuous Probability Distributions

Part 3: SAMPLING DISTRIBUTIONS AND ESTIMATION

- Chapter 8. Sampling Distributions
- Chapter 9. Estimating from Sample Data

Part 4: HYPOTHESIS TESTING

- Chapter 10. Tests involving a Sample Mean or Proportion
- Chapter 11. Tests involving Two Sample Means or Proportions