Business Statistics I
Course Description, Requirements & Syllabus

Course ID: pena32344

Professor: Victor Peña
Office: 11-273 VC
Office hours: M&W 12pm-1pm and by appointment
Email: Victor.Pena@baruch.cuny.edu

COURSE DESCRIPTION

This course provides students with the statistical tools and concepts needed in business applications. Topics include: proper tabular and chart presentation; interpretation of descriptive measures; applications of probability and the normal distribution; confidence interval estimation; hypothesis testing; and simple linear regression models. Emphasis is on understanding data analysis and interpretation. Computations are facilitated using standard spreadsheet software, a valuable tool for the students. Discussions on ethical issues are integrated throughout the course. This course will enhance skills in critical thinking, as well as oral and written communication. Techniques learned in this course can be immediately put to use by the student.

COURSE OBJECTIVES

- To provide the student with a fundamental background in both descriptive and inferential statistical methods that are useful in all areas of their business studies.

- To make the student proficient in the use of the Excel software.

- To enhance the student's skills in critical thinking.

COURSE MATERIALS

TEXT: Pearson Custom Library - Business Statistics STA 2000 Baruch College
(Third Custom Edition of Business Statistics)
Sharpe, DeVeaux, and Velleman

Buy at special price:
URL: http://www.mypearsonstore.com/deals/promo_login.asp?promo=140407
Usename: sta2000
Password: baruch

Course Blackboard Website: www.baruch.cuny.edu/bctc/blackboard
Software: Microsoft Excel 2003 or later versions.

MY LAB: This course will use MyLab – an online resource to help you assess your statistical skills, do homework, take practice quizzes, and more! The steps you have to follow to get access to MyLab can be found on Blackboard, in the file Student_Registration_Handout_pena32344.pdf.

COURSE REQUIREMENTS

- Homework and quizzes
- An in-class midterm and a final exam (both are closed book, you can bring a cheat sheet in a 8.5x11in sheet, two-sided).

GRADING POLICY

Midterm (10/31)	30%
Final (12/19)	40%
Homeworks	15%
Quizzes	15%

There will be some extra credit assignments that will add up to your final grade.

Late policy: You can turn in 3 homework assignments and 1 quiz up to 7 days late without any penalty. Beyond that, there will be a 30% penalty if it is between 1 and 3 days late, and 50% if it is between 4 and 7 days late. Assignments and quizzes that are turned in more than 7 days late will be given no credit.

Midterm and final scores may be curved according to class performance.

I will follow the following correspondence between grade scales and letter grades:

Letter Grade	GPA Value	Grade Scale %
A	4	93.0 -100
A-	3.7	90.0 - 92.9
B+	3.3	87.1 - 89.9
B	3	83.0 - 87.0
B-	2.7	80.0 - 82.9
C+	2.3	77.1 - 79.9
C	2	73.0 - 77.0
C-	1.7	70.0 - 72.9
D+	1.3	67.1 - 69.9
D	1	60.0 - 67.0
F	0	0.0 - 59.9

ACADEMIC INTEGRITY

Academic dishonesty is unacceptable and will not be tolerated. Cheating, forgery, plagiarism and collusion in dishonest acts undermine the college's educational mission and the students' personal and intellectual growth. Baruch students are expected to bear individual responsibility for their work and to uphold the ideal of academic integrity. Any student who attempts to compromise or devalue the academic process will be sanctioned. Please see the Baruch College Website for Further Information: http://www.baruch.cuny.edu/academic/academic_honesty.html

TENTATIVE SYLLABUS

The topics and the time we spend on them might are subject to change (slightly). Please check Blackboard for an up to date schedule.

Topic I **Introduction and Data Presentation**
(4 lectures) Read Chapters 1-3
- Introduction to statistics
- Data and variables
- Contingency tables
- Bar and pie charts
- Frequency and percentage distributions
- Histograms and polygons
- Cumulative distributions
- Measures of central tendency
- Measures of variability
- Shape and symmetry

Topic II **Regression and Correlation**
(3 lectures) Read Chapter 4
- Simple linear regression
- Measures of variation

Topic III **Probability, Probability Distributions, &**
(7 lectures) **Sampling Distributions**
Read Chapters 5-9
- Rules of probability
- Conditional probability & independence
- Discrete probability distributions
- Continuous probability distributions
- Normal distribution
- Surveys and sampling
- Sampling distributions of means & proportions

Topic IV: **Hypothesis Testing Part I**
(6 lectures) Read Chapters 10-11
- Basic concepts
- One sample tests for means and proportions

Topic V: **Hypothesis Testing Part II**
(3 lectures) Read Chapters 12-14
- Two sample tests for means and proportions
- Testing difference between 2 or more proportions
- Tests of independence

Topic VI: **Regression**

(3 lectures) Read Chapters 15-18

- Tests for regression
- Model criticism
- Multiple regression models