BOSTONCOUEGE
Department of Economics

Ec 157.01
Statistics-Honors
Fall, 1999

Harold Petersen
McGuinn 518, (617) 552-4550
Office Hours: M 2-3, W 3-4, Th 2-3:30

## Syllabus

Text: Smith, Gary. Introduction to Statistical Reasoning, 1998.
Supplemental Book (on reserve in O'Neill Library): Smith, Gary. Statistical Reasoning, $3^{\text {rd }}$ edition, 1991. (referred to on the following pages as Smith 91.

Course Requirements: 2 midterm exams (30\% each), on Sept. 30 and Nov. 4 a final exam (40\%), on Dec. 18 at 9:00 a.m. numerous problem sets (used as additional evidence for up to one notch on your final grade: B+ to $\mathrm{A}-$, B to $\mathrm{B}+$, etc.)

## Course Organization and Expectations:

Ec. 157 is an intensive course in probability and statistics. It assumes some knowledge of set operations, algebra, and calculus, and most importantly, intellectual curiosity and a willingness to work. I expect you to come to every class, to read the text carefully, to work through the problem sets, and to raise questions in class. You are encouraged to work together on the problem sets, if you like, but you should all be sure to understand how they are done.

Your work on exams is to be entirely your own. Be sure you are familiar with the sections on "Academic Honesty" in the Undergraduate Catalog (p. 35) and be aware that I take this most seriously.

There will be no make-up exams. If you miss an exam for good reason, let me know immediately (my phone has voice mail) and you will be graded on the other exam and the final. If you do poorly on one mid-term but consistently well on the other one and the final, the one poor exam will be discounted (but not completely ignored).

Finally, a word on statistics. It should be fun, no matter what you have heard about it. It should give you a sense of power and hopefully of responsibility too as you gain that power. It will be new to most of you, and some of you will find it difficult. But you have a good text (read it and supplement it with Smith 91 as found on reserve) and you will have problem sets designed to help you master the more difficult material. If you take the course seriously and you work at it, most particularly early on, you will do well and you will enjoy it.

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## Syllabus

| Date | Topics | Assignment |
| :--- | :--- | :--- |
| Sept. 2 | Introduction <br> Data, Description, \& Inference <br> Frequency Distributions \& Histograms | Text, Chs. 1 and 2 |

## Sept. 30 First Midterm Examination

Oct. 5 Continuous Distributions
The Uniform Distribution
The Normal Distribution
The Central Limit Theorem
Text, Ch. 5 (5.5-5.6)
Smith 91 (6.3,pp.242-243)
$\begin{array}{ll}\text { Oct. } 7 & \begin{array}{l}\text { Using the Normal Distribution } \\ \text { Standardized Distributions } \\ \text { Approximating Binomial Probabilities }\end{array}\end{array}$

Oct. 12

Oct. 14

Oct. 19

Oct. 21
Oct. 26
Oct. 28

Nov. 2

Nov. 4 Second Midterm Examination
Nov. 9

Nov. 11

Nov. 16

Nov. 18

Nov. 23

Nov. 30

Dec. 2
Dec. 9
Dec. 18 Final Exam at 9:00 a.m.

Text, Ch. 4
Text, Ch. 6 (6.1,pp.274-281)

Text, Ch. 6 (6.1)

Text, Ch. 6 (6.2)

Text, Ch. 6 (6.3)
Text, Ch. 7 (7.1-7.3)

Smith 91 (10.3,11.1)

Text, Ch. 11 (11.2)

Text, Ch. 11 (11.1)

Text, Ch. 11 (11.3-11.4)

Smith 91 (15.1-15.3)

Text, Ch. 11 (11.5)

