BOSTON COLLEGE DEPARTMENT OF ECONOMICS

EC 151.10 Introduction to Statistics Fall 2000 T/Th 12-1:15 Joy Ongardanun Carney 33 Phone: 552-8 E-mail: ongardan@b Office Hrs: T/Th 1(

Course Description:

This is an introductory course in statistics. The course is designed learn how to analyze data using various statistical tools. Students both intuitive understanding and technical ability in interpreting data

Text:

Anderson, Sweeney and Williams, Essentials of Statistics for Busin
Pelosi and Sandifer, Doing Statistics for Business (optional)

Course Requirements: Problem Sets (20%) Quizzes (10%) TBA Two Midterms (40%) on Oct 5 and Nov 9 One Final (30%) on Thursday Dec 14 at 9:00

Problem sets will cover questions from the main textbook. Some of computer exercises. Students are encouraged to use computers to deve skills in working with data. Excel is the program that students will during this class.

A short quiz is given every three or four weeks. The exact dates wi week in advance. There will be a total of 4 quizzes.

All exams are cumulative but the emphasis is on the current materia <u>make-up exam</u>s. Please make sure you have no scheduling conflict with

Academic Integrity: Students are expected to do their own work on problem sets, quizze may consult your fellow students on problem sets but you are respon own answer. It is important that you make sure you are familiar w: Academic Honesty in the Undergraduate Catalog and act accordingly.

Syllabus

Dates	Topics	Readings
Sept.	Introduction, Descriptive Statistics: '	T Ebulà & 2Graphica
		Ch. 3.1-3.3
Sept.	Covariance, Correlation, and Weighted	M@an 3.4-3.6
Sept.	Probability: Permutations, Combination	sCh 4.1-2
Sept.		
Sept.	Bayes Theorem	Ch. 4.5
Sept.	Random Variables, Discrete Probabilit	Ch 5.1-5.3
	Expected Value, Variance	
Sept.	Binomial & Poisson Probability Distrib	u€hof.4-5.5
Oct. 3	Review Session	Ch. 1-5
Oct. 5	First Midterm	
Oct. 1	OUniform & Normal Probability Distribut	iđh. 6.1-6.2
Oct. 1	2Approximation of Binomial, Exponential	DhstbiBubien
Oct. 1	7Sampling, Point Estimation	Ch. 7.1-7.3
Oct. 1	9Sampling Distributions	Ch. 7.4-7.5
Oct. 2	4Interval Estimation: Large and Small Sa	afiple8Cases2
Oct. 2	6Determining the sample size	Ch 8.3-8.4
	Interval Estimation of a Proportion	
Oct. 3	INull and Alternative Hypotheses	Ch. 9.1-9.2
	Type I and Type II Errors	
Nov. 2	One-tailed and Two-tailed Tests	Ch 9.3-9.4
Nov. 7	Small Sample Test, Test about Population	offhPr@p5r@i6n
Nov. 9	Second Midterm	Ch. 6-9
Nov. 1	Simple Linear Regression, Least Square	sCMetBod-12.2
Nov.16	Coeffient of Determination, Model Assu	mphiohæ.3-12.4
Nov. 2	Testing for Significance, t Test, F Te	s C h. 12.5
Nov. 2	Using the Estimated Regression for Pred	d¢btið2.6
Nov. 2	Multiple Regression	Ch. 12.9
Nov. 3	Time Series and Moving Average	Ch. 13 (optic
Dec. 5	Forecasting	Ch. 13 (optic
Dec. 7	Review Session	Ch. 1-12
Dec. 1	Final Exam	