Spring 2011
BSTAT 3321
Business Statistics I

Instructor Information

Instructor	Dr. Craig W. Slinkman
Office	COBA 532
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Email:	slinkman@uta.edu
	You must send all your class communication using your assigned UTA email account because the UTA email security program often flags non-UTA emails as spam. You should also read your UTA email account as class information will be emailed to this address. You are responsible for any messages sent to this address. You can, of course, have email sent to your UTA email forwarded to another email address. See the help desk in the library for this procedure.

Course Description

This course presents the application of statistical techniques to business and economic data. Topics include descriptive statistics, probability distributions, estimation, inference, regression, correlation, and time series. Prerequisite: INSY 2303 and MATH 1315.

Prerequisites

Prerequisite: INSY 2303 and MATH 1315.

Section Information

Section	Time	Room
BSTAT 3321-006 (22562)	TuTh 5:30PM - 6:50PM	COBA255

Spring 2011
BSTAT 3321
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Office Hours

Day	Location	Time
M	Basement UTA Library Study Area	7:00 – 9:00 PM
TuTh	COBA 532	3:30 – 5:00 PM
TuTh	Basement UTA Library Study Area	8:30—9:30 PM

Office hours are available by appointment.

Textbooks

Curricula Requirements	Recommended Text
BSTA 3321	*Levin David M., Stephan David F., Krehbiel, Timothy C., and Marl L, Berenson (2011). Statistics for Managers: Custom Edition for the University of Texas at Arlington*. ISBN-13: 978-0-558-66795-5 or ISBN 10: 0-558-66795-3.
BSTAT 3321 & BSTAT 3322	Levin David M., Stephan David F., Krehbiel, Timothy C., and Marl L, Berenson (2011*). Statistics for Managers Using Microsoft Excel, 6th Edition*, Prentice Hall, New York, New York. ISBN-13: 978-0-13-703519-9 or ISBN-10: 0-13-703519-5.

Hardware

We strongly advise you to use a laptop or notepad computer in this course. You should bring your laptop to class every day. Extension cords will be provided by your instructor (out of his own pocket).

Software

StatCrunch is an online statistical software package that allows users to perform complex analyses, share data sets, and generate compelling reports of their data. Developed by programmers and statisticians led by Webster West of Texas A&M University, StatCrunch already has more than ten thousand data sets available for students to analyze, covering almost any topic of interest. Interactive graphics are embedded to help users understand statistical concepts and are available for export to enrich reports with visual representations of data.

StatCrunch can be leased for $12 per 6 months. You sign up for StatCrunch at http://www.statcrunch.com/register.php. I would suggest you make StatCrunch one of your favorites.

Spring 2011
BSTAT 3321
Business Statistics I

Grading Policy

2 Exams	40%
Homework	30%
Comprehensive Final Exam	30%
Total points	100%

2010 Fall BSTAT 3321 Final Grade

2010 Fall BSTAT 3321 Final Grades
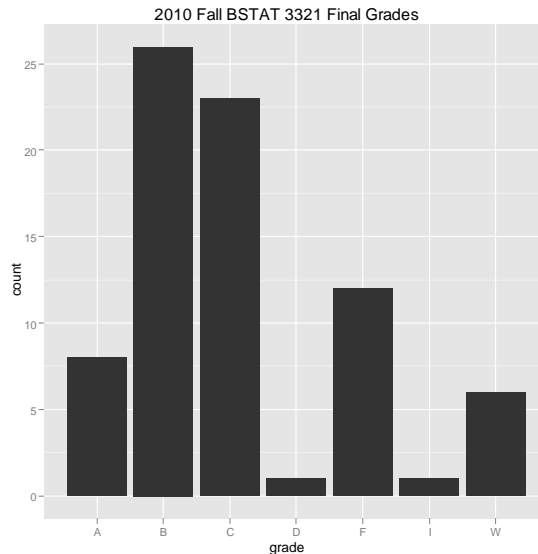
Exams

The following rules apply to exams.

1. There will be no make-up exams. The grade on your final exam will substitute for the missing exam. If you miss a single exam, then the final will count twice. So try to not miss an exam.
2. The final exam is comprehensive.
3. You will be allowed one formula sheet per exam. On the final exam you may use four formula sheets.
4. Students will be given an opportunity to redo each missed question on the exam. They will be given 1 additional exam point for every question they miss and redo correctly. The exam will be passed back in class and you will be given one class day to make the necessary correction.

Homework

1. Experience has taught that the most important aspect of learning statistics is student's doing the homework. Human nature being what it is, students tend to avoid doing homework if the homework is not graded. Therefore, your homework will be graded. *Homework is a vital component of this class.*

2. I will pass homework out homework problems in class.

3. Each homework problem must be typed. Failure to do so will result in grade of zero. You can write any equations by hand if you do not use *the Microsoft Word Equation Editor*.

4. Each homework problem must start on a new page. All pages of the homework problem must be stapled together.

5. The header of each homework problem must contain the homework assignment and the problem number and you name. For example problem 3.05 would be the fifth problem on the third homework.

6. I will drop the lowest homework assignment. The only exception to this is the last homework assignment. It will count two of the other homework assignments. If you miss it I will drop 1 of the zeros.

7. Appropriate computer output must be included in your problems solution. We will be using the **StatCrunch** statistical package. You can save you analysis as a journal file and insert the journal file into your word document of you use a program like *Snagit* or the screen capture facility in *Windows*.

8. Computations carried out by hand must show the appropriate equation, numeric substitutions, and resultant computations.

9. An example homework problem will be handled out in class and posted on the web site.

Spring 2011
BSTAT 3321
Business Statistics I

Extra Credit

You can earn up to five points on your final average by submitting a paper on one of the four books listed in the book section of this document. You must follow the following directions explicitly. Failure to do so will result in your report not being graded.

Requirements

1. You can only submit a paper on one of the books listed below.
2. Your paper must contain an introduction and summary. In the summary explain how the author applies critical thinking to the books subject matter. The summary must also describe the major point that the author is trying to expound on.
3. You must give at least a one to two paragraph summary of each chapter. What was the theme of the chapter? In this summary, you must identify facts or theory you found surprising or did not know.
4. The paper must be submitted as a printed paper and a label CD in a Manila envelope. Failure to do so will result in the paper not being graded. The CD will be used to search the internet for plagiarism.
5. The paper must be your own work. If I find any copied material from the internet or another student I will deduct 5 points from your final average.
6. The paper must be well written and meet the standards one would expect from a college student.
7. The paper is due the last class day before the final exam. Late papers will not be graded. So if you are expecting to need these points, I would suggest you complete your review early.
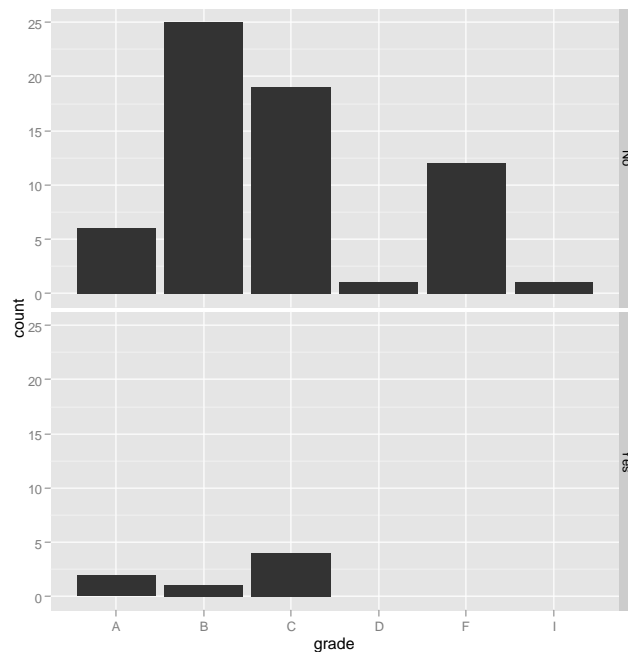
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Spring 2011
BSTAT 3321
Business Statistics I

Tentative Class Schedule

Tentative Class Schedule

Week	Topic	Module	Text	Practice Problems	Homework
1/16/2011	Why Study Statistics?	Module 1: Why Study Statistics?	Chapter 1		
1/23/2011	Visualizing Data	Module 2: Graphical Descriptive Statitics	Sections 2 – 2.5	2.20, 2.26, 2.28, 2.46, 2,48, 2.50,2.59, 2.64, 2.66	H1 Assigned
1/30/2011	Numerical Descriptive Statistics	Module 3: Numerical Descriptive Statistics	Chapter 3	3.2,3.12, 3.14, 3.38, 3.30, 3.40, 3.41, 3.42	H2 Assigned
2/6/2011	Probability	Module 4: Probability	Chapter 4	4.4, 4.8, 4.12,4.14, 4.16,4.22, 4.24,4.32,4.34	H3 Assigned
2/13/2011	*Exam I*	*Covers Modules 1 – 3 Probability is not included*			
	Discrete Probabil;ity Distributiobns	Module5: Discrete Probability Distributions	Sections 5.1—5.3	5.2, 5.4, 5.6, 5.18, 5.20, 5.22, 5,26	H4 Assigned
2/20/2011	Application: Blackjack				
2/27/2011	Normal Distribution	Module 6: The Normal Distribution	Sections 6.1—6.3	6.2, 6.6, 6,8, 6.10, 6.12, 6.16, 6.22	H5 Assigned
3/6/2011	Sampling Distributions	Module 7: Sampling Distributions	Chapter 7	7.8,7.16,7.22,7.26	H6 Assigned
3/13/2011	**Spring Break**				
3/20/2011	Estimation	Module 8: Estimation	Chapter 8	8.2, 8.8, 8.10	H7 Assigned
3/27/2011	*Exam II*	*Covers Modules 4-7 Probability is not included*			
4/3/2011	Hypothesis Testing	Module 9:Hypothesis Testing	Chapter 9	8.2,8.6,8.10,8.12,8.16,8,20,8.24, 8.50,,8.54	H8 Assigbed
4/17/2011 4/24/2011	Simple Linear Regression	Module 10: Simple Linear Regression	Chapter 13	13.1,13.2,13.8, 13.6, 13.36	
5/1/2010					
Final Exam:TR 5:30 - 7 p.m. Tuesday May 10 5:30 - 8 p.m.					

Academic Integrity & Scholastic Dishonesty

Introduction

It is the policy of the University of Texas at Arlington to uphold and support standards of personal honesty and integrity for all students consistent with the goals of a community of scholars and students seeking knowledge and truth. Furthermore, it is the policy of the University to enforce these standards through fair and objective procedures governing instances of alleged dishonesty, cheating, and other academic/non-academic misconduct.

What is Academic Integrity?

Academic integrity is defined as being a firm adherence to a code or standard of values. It is a commitment on the part of the students, faculty and staff, even in the face of adversity, to five fundamental values:

- Honesty
- Truth
- Fairness
- Respect
- Responsibility

These values form the principles of acceptable academic behavior. Unfortunately, when these ideals are not translated to each and every one in the academic community, academic dishonesty is inevitable.

Student's behavior in an academic institution will form the basis of their professional life. One only has to look at WorldCom, Tyco, and Enron.

Student Responsibility

You can assume responsibility in two ways. First, if you choose to take the risk associated with scholastic dishonesty and any other violation of the Code of Student Conduct and Discipline, you must assume responsibility for your behaviors and accept the consequences. In an academic community, the standards for integrity are high. Second, if you are aware of scholastic dishonesty and any other conduct violations on part of others, you have the responsibility to report it to the professor or the assistant dean of students/director of student judicial affairs. The decision to do so is another moral dilemma to be faced as you define who you are.

Academic Dishonesty

What Constitutes Scholastic Dishonesty?

Cheating

- Copying another's test of assignment.
- Communication with another during an exam or assignment (i.e. written, oral or otherwise).
- Giving or seeking aid from another when not permitted by the instructor.
- Possessing or using unauthorized materials during the test.
- Buying, using, stealing, transporting, or soliciting a test, draft of a test, or answer key.

Plagiarism

- Using someone else's work in your assignment without appropriate acknowledgement.
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- Making slight variations in the language and then failing to give credit to the source.

Collusion

- Without authorization, collaborating with another when preparing an assignment.