Stat Meth Business (33:136:385)

Tom Bruning

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Instructor

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Office Hours: by appointment

Resources

Textbook:

Title: *Basic Business Statistics: Concepts and Applications*
Authors: Berenson, Levine,Krebbel
Publisher: Pearson
ISBN-10 0132168383

Computer Resources

Title: Microsoft Excel, or equivalent
Additional Resources: Data Analysis plugin

Prerequisites

The following prerequisites are **essential** for successful learning and understanding of this course:
* An introductory course in probability and statistics such as 960:285
* Basic college algebra
* Working knowledge of Excel spreadsheets

Course Overview

This course will review the basic statistical methods essential for doing business analysis, in particular when outcomes are uncertain and future events are subject to chance variation. We will study basics of data analysis using computer software.

Course Web site information and discussion

Blackboard

All class discussions, assignments, and materials will be posted to Blackboard
Please review this site 2-3 times per week for further information.

Homeworks, Exams, and Grading Policy

Homework (10% of final grade)

I will post approximately 10 homework assignments during the semester. You are responsible for completing the work, on time. Statistics is not a *spectator sport* , it is a *participatory sport.* I have it on good authority, (10+ years of teaching statistics experience) if you do not do the work you **will** not understand and succeed in this class. If you miss two (2) homeworks you will receive an **F** for this class. This is true regardless of your grades on the other homework assignment and your grades on the midterm and final.

Midterm (40% of final grade)

The midterm is a full period test that is scheduled during the 7th week of class.

Final (50% of final grade)

Schedule TBD

Topic Schedule

Table 1: Tentative Topics and Dates

Week.of	Topic	Chapter.s.	Additional.Info
9/2/18	Intro & Data Analysis	Chapter 7	Review Chapters 4,5,6
9/9/18	Sampling Distributions	Chapter 7	
9/16/18	Estimation	Chapter 8	
9/23/18	Confidence Intervals	Chapter 9	
9/30/18	Hypothesis Testing single sample	Chapter 9	
10/7/18	CI and Hypothesis two samples	Chapter 10	
10/14/18	Midterm		
10/21/18	Simple Linear Regression	Chapter 13	
10/28/18	Spring Break		
11/4/18	Experiment Design	Chapter 11	
11/11/18	ANOVA	Chapter 11	
11/18/18	Multiple Regression	Chapter 14	
11/25/18	ANOVA	Chapter 14	
12/2/19	Categorical Data Analysis	Chapter 12	
12/9/18	Time Series	Chapter 16	
	Final		