ST 260 – Statistical Methods – Spring 2007

Class Meetings: Bidgood Hall Rm 240 with occasional meetings in Bashinsky Rm #4: Sec 003 8:00 - 9:45 AM T Th

Text: *Business Statistics*, 5th Edition, R. Weiers. Some notes / handouts available on WebCT.

Prerequisites: CS 102 and MATH 112 or equivalents

Description: Introduction to statistical methods; numerical and graphical summaries of data; elementary rules of probability and probability distributions, with focus on the normal distribution; simple regression; confidence intervals for means and proportions.

Objectives: At the conclusion of the course, students will be able to summarize and present their own data using appropriate summary statistics and graphical displays, as well as critically analyze quantitative information that they are likely to encounter in typical business settings. Students will gain familiarity with the normal distribution and its importance in estimation and statistical inference.

Instructor: Dr. Bruce Barrett, 352 Alston Hall; 348-8903; *bbarrett@cba.ua.edu*
Office Hours: I am available the majority of normal business hours except 10 AM – 2 PM T Th.

Attendance: Attendance of the lectures is an integral to the course and is expected from all students. Students are asked to carry their UA ID to each class and test.

Attire: Casual but modest. Students must not wear clothing displaying inappropriate messages. Gentlemen (and ladies) are instructed not to wear hats or caps in the classroom.

Eating: Eating and drinking in the classroom is not permitted either before or during class.

Grading: Two in-class Tests: 25% each; Quizzes and other assignments: 25%; Final Exam: 25%. Failure to follow instructions may result in a deduction of points at my discretion.

Scale	
96 – 100	A+
91 – 95	A
88 – 90	A–
85 – 87	B+
81 – 84	B
78 – 80	B–
75 – 77	C+
71 – 74	C
68 – 70	C–
65 – 67	D+
61 – 64	D
58 – 60	D–
0 – 57	F

No make-up test will be given for students missing any scheduled test. Any student that misses a test for a legitimate reason will have the Final Exam re-weighted. Clearance for this provision must be obtained from the instructor prior to the test.

Brief quizzes will be given throughout the term. These may be unannounced. The two lowest quiz grades will be dropped and the remaining scores averaged. There is no make-up provision for quizzes. Any missed quiz will be assigned a grade of zero.

All tests and quizzes are non-circulating. Possession of these materials or their contents outside of the classroom will be treated as an act of academic misconduct. Students should familiarize themselves with the University policies on Academic Misconduct; these are vigorously enforced.

Students with disabilities that require special accommodation should register with the Office of Disability Services (348-4285) and then make arrangements with the instructor early in the term.

In the event of an emergency, we will adhere to the following actions in accordance with University policies. FIRE/FIRE ALARM: Evacuate the building and stay out of the building at a safe distance until authorized to return. TORNADO WARNING: Move to the Lower Level, inside classrooms, offices or corridors. Remain until the warning has expired. Classes are cancelled until the warning expires.

ST 260 TENTATIVE SCHEDULE Spring 2007

TUESDAY	THURSDAY
	January 11 Introduction / Data Types Chapter 1
January 16 Graphical Displays Chapter 2	January 18 Numerical Summaries Chapter 3 (less 3.5)
January 23 Numerical Summaries Chapter 3 (less 3.5)	January 25 Data Collection / Probability Chapters 4 & 5
January 30 Probability Chapter 5	February 1 Discrete & Binomial Distributions Chapter 6.1-6.2
February 6 Discrete & Binomial Distributions Chapter 6.1-6.2	February 8 Discrete & Binomial Distributions Chapter 6.1-6.2
February 13 **TEST 1**	February 15 Normal Distribution Chapter 7.1-7.3
February 20 Normal Distribution Chapter 7.1-7.3	February 22 Normal Distribution Chapter 7.1-7.3
February 27 Distribution of the Sample Mean Chapter 8.1 - 8.3	March 1 Distribution of the Sample Mean Chapter 8.1 - 8.3
March 6 Distribution of the Sample Mean Chapter 8.1 - 8.3	March 8 Confidence Interval for the Mean Chapter 9.3-9.5
March 13 Spring Break	March 15 Spring Break
March 20 Confidence Interval for the Mean Chapter 9.3-9.5	March 22 Confidence Interval for the Mean Chapter 9.3-9.5
March 27 Confidence Intervals for Proportions Chapter 9.6-9.9	March 29 Confidence Intervals for Proportions Chapter 9.6-9.9
April 3 **TEST 2**	April 5 Scatterplots and Correlation Chapter 15.4
April 10 Simple Regression Chapter 15	April 12 Simple Regression Chapter 15
April 17 Simple Regression Chapter 15	April 19 Simple Regression Chapter 15
April 24 Multiple Regression Chapter 16	April 26 Multiple Regression Chapter 16
May 1 Multiple Regression Chapter 16	May 3 Multiple Regression Chapter 16

Final Exam : May 8, 11:30 AM - 2:00 PM