

FAYETTEVILLE STATE UNIVERSITY
SCHOOL OF BUSINESS AND ECONOMICS
Department of Management

COURSE TITLE: Statistics for Business and Economics

SEMESTER: Fall 2009

COURSE NO: BADM 216

SECTION NO: 1

Number of Credits: 4

Meeting Time: MW 12:00 – 1:50 PM

Location: SBE 213

Course Web Page: <http://blackboard.uncfsu.edu>
<http://faculty.uncfsu.edu/clightner/>

INSTRUCTOR: Dr. Constance Lightner

OFFICE: SBE 318

PHONE: 672-1310

E-MAIL: clightner@uncfsu.edu

OFFICE HOURS: MW 10:00 am – 12:00 pm
T 10:00 am – 2:00 pm

The Mission Statement of the School of Business and Economics

The School of Business and Economics builds upon Fayetteville State University's strong teaching orientation, supplementing it with pedagogical and applied research. The School graduates students who possess a sound understanding of business concepts and applications seeking careers in management, government, and professional disciplines. The School also serves the community as a catalyst for spurring economic development and assisting in economic education.

II COURSE DESCRIPTION:

This course introduces statistical principles for business and economic applications. Regression is presented to convey statistical thinking, modeling and analysis.

III COURSE TEXT:

Anderson, Sweeney, and Williams, “Essentials of Statistics for Business and Economics, 5th ed., 2008.

IV LEARNING OBJECTIVES:

Upon completion of this class, the student will be able to:

1. Conduct hypothesis tests to determine whether statements about population means, proportions, and variances should be accepted or rejected.
2. Use ANOVA to test for the equality of three or more population means.
3. Build regression models to obtain an equation that expresses how system variables are related.
4. Use statistical methods to solve typical forecasting and quality control problems.

V COURSE COMPETENCIES

1. The student will be able to organize raw data.
2. The student will develop the ability to draw graphs.
3. The student will demonstrate a thorough knowledge of descriptive measures (arithmetic mean, median, mode) and variance.
4. The student will become familiar with probability concepts and distributions (Binomial, Poisson, Normal).
5. The student will be able to construct confidence intervals and determine appropriate sample sizes.
6. The student will be able to set up a simple linear regression equations, and use the equation to estimate values.
7. The student will be able to use MS Excel and SPSS to analyze real world statistical applications.
8. The student will learn the vital role that ethics play in the reliability of statistical results.
9. The student will enhance their overall analytic and critical thinking skills.

VI EVALUATION CRITERIA:

GRADING:

Examination 1.....	11%
Examination 2.....	11%
Midterm Examination*	16%
Examination 4.....	11%
Examination 5.....	11%
Final Examination*	20%.
Quizzes/ and Assignments.....	15%
Class Participation.....	5%

* Cumulative Examinations

THE STANDARD FSU GRADING SCALE:

A= 92-100 B=83-91 C=73-82 D=64-72 F=63 and below I=Incomplete

VII COURSE OUTLINE WITH ASSIGNMENT SCHEDULE:

COURSE SCHEDULE:

Date	Chapter Title/Topic	Chapter	Assignments
8/24	Introduction Introduction to Statistics	1	
8/26	Introduction to Statistics	1	
8/31	Descriptive Statistics I	2	5, 14 (b,c), 17
9/2	***** EXAM 1 *****		
9/7	Labor Day—No Class*****		
9/9-9/16	Descriptive Statistics II	3	3, 4, 15, 29
9/21	***** EXAM 2 *****		
9/23	Probability	4	7, 15, 18, 23
9/28-10/5	Discrete Random Variables	5	6, 14, 16a, 28, 31, 33
10/7	***** MIDTERM EXAM *****		
10/12 – 10/26	Continuous Random Variables	6	12, 14, 17, 20, 22
10/28	***** EXAM 4 *****		
10/30	***** Last Day to Withdraw from Class—Remember 5 Limit Rule *****		
11/2	Sampling Distributions* (Brief Overview) Begin Interval Estimation	7 8	8, 9, 17, 26, 35, 36
11/4- 11/9	Interval Estimation	8	
11/11-11/18	Hypothesis Testing	9	16, 17, 27, 38, 41
11/23	***** EXAM 5 *****		
11/25-12/2	Regression Analysis	12	2, 4, Excel (18, 20)
_____	FINAL EXAM *****		

VIII COURSE REQUIREMENTS

EXAMS

Your Final Exam will be cumulative. Make-up exams will be given only in emergency situations. Prior instructor approval is required.

QUIZZES

Pop-up quizzes will be given frequently. Since you are expected to attend class regularly, no make up quizzes will be given.

ASSIGNMENTS

Homework assignments (listed in section VII) will be due one week following the beginning of the respective chapter. Late homework will not be accepted.

CLASS PARTICIPATION

UNIVERSITY REQUIREMENTS

INTERIM GRADE X = NO SHOW – Assigned to students who are on a class roster, but never attend class. For warning purposes only; NOT a final grade.

INTERIM GRADE EA = EXCESSIVE ABSENCES - Assigned to students whose class absences exceed 10% of the total contact hours. For warning purposes only, NOT a final grade.

FN = FAILURE DUE TO NON-ATTENDANCE – Assigned to students who are on class roster, but never attend the class. An FN grades is equivalent to an F grade in the calculation of the GPA.

NOTE TO STUDENTS ABOUT CLASS WITHDRAWALS:

Withdrawal from Class

Withdraw from Class means you are withdrawing from 1 or 2 classes that you will not be attending and you have other classes on your schedule that you will attend. Effective Fall 2009, students will be allowed only 5 withdrawals from class for the remainder of your college career. The 6th W will be calculated as "F".

IX TEACHING STRATEGIES

This is a web enhanced course that involves lectures (classroom and virtual), individual and group computer and Internet assignments, and midterm and final exams. All course assignments, homework solutions, notes, programs, and other course documentation will be provided via the Internet. In addition, regular web discussion boards and virtual classroom meetings will be scheduled as needed to enhance student learning.

X BIBLIOGRAPHY

Anderson, Sweeney, and Williams, Statistics for Business and Economics, 9th Edition.

Bowerman, O'connell, Hand, "Business Statistics in Practice, 3rd ed. Boston, MA:Irwin/McGraw Hill.

Groebner, Shannon, Fry, Smith, "Business Statistics: A Decision-Making Approach," 6th ed. Upper Saddle River, NJ,: Prentice Hall.

Lind, Mason, and Marchal, "Basic Statistics for Business and Economics," 4th ed. Boston, MA:Irwin/McGraw Hill.

Mcclave, Benson, and Sincich, "Statistics for Business and Economics," 9th ed. Upper Saddle River, NJ,: Prentice Hall.

Mendenhall, and Sincich. "Statistics for Engineering and the Sciences." New York, NY: Dellen-MacMillan , 1992.

Pelosi, and Sandifer, "Doing Statisitcs for Business with Excel," 3rd Edition, New York, NY: John Wiley and Sons.

Seeing Statistics URL:

<http://www.seeingstatistics.com>

Triola, "Elementary Statistics using Excel." Boston, MA: Addison, Wesley, Longman.