

**FAYETTEVILLE STATE UNIVERSITY
SCHOOL OF BUSINESS AND ECONOMICS**

I Locator Information

INSTRUCTOR: Dr. Constance Lightner
COURSE TITLE: BADM 530 Statistics for Business and Economics
SEMESTER: Fall 2009
Number of Credits: 3
Class Meeting
Time: M 6:00-8:50 PM

E-MAIL: clightner@uncfsu.edu
OFFICE: SBE 113 (and SJAFB)
Course Web Page: <http://blackboard.uncfsu.edu>

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

PHONE: 910-672-1310 (w)
919-599-4007 (m)

FSU Policy on Electronic Mail: Fayetteville State University provides to each student, free of charge, an electronic mail account (username@uncfsu.edu) that is easily accessible via the Internet. The university has established FSU email as the primary mode of correspondence between university officials and enrolled students. Inquiries and requests from students pertaining to academic records, grades, bills, financial aid, and other matters of a confidential nature must be submitted via FSU email. Inquiries or requests from personal email accounts are not assured a response. The university maintains open-use computer laboratories throughout the campus that can be used to access electronic mail.

Rules and regulations governing the use of FSU email may be found at <http://www.uncfsu.edu/PDFs/EmailPolicyFinal.pdf>

II COURSE DESCRIPTION:

Basic concepts of probability and statistics used in management are presented. Students will also explore the role of inferential statistics in the decision making process. Topics include random variables, probability distributions, interval estimation, hypothesis testing, and regression analysis.

III Disabled Student Services: In accordance with Section 504 of the 1973 Rehabilitation Act and the Americans with Disabilities Act (ACA) of 1990, if you have a disability or think you have a disability to please contact the Center for Personal Development in the Spaulding Building, Room 155 (1st Floor); 910-672-1203.

IV COURSE TEXT:

Black, Ken, "Business Statistics, 5th , Wiley , 2008 (ISBN 978-0471-78956-7).

V STUDENT LEARNING OUTCOMES

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

1. Design, evaluate, and interpret statistical models in Excel.
2. Conduct hypothesis tests to determine whether statements about population means, proportions, and variances should be accepted or rejected.
3. Build regression models to obtain an equation that expresses how system variables are related.
4. Use statistical methods to solve typical business problems.

VI COURSE REQUIREMENTS:

GRADE SCALE

A= 100-90 B=89-80 C=79-70 F=69 and below

GRADING:

| | |
|------------------|-----|
| Homework | 16% |
| Examinations (3) | 51% |
| Case Studies | 15% |
| Final Exam | 18% |

HOMEWORK

You are encouraged to work with your classmates. Chapter homework must be completed prior to the due dates provided in the course schedule below. **NO LATE HOMEWORK ASSIGNMENTS WILL BE ACCEPTED.**

EXAMINATIONS

This course includes 3 regular exams and a comprehensive final exam. **MAKEUP EXAMS WILL NOT BE GIVEN.** It is your responsibility to ensure that you are present on all exam days

CASE STUDIES

Microsoft Excel must be used for all case studies. Cases must be completed before due dates.

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.

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.

VII REFERENCES

Anderson, Sweeney, and Williams, Statistics for Business and Economics, 7th Edition, 1999.

Anderson, Sweeney, and Williams, Test Review CD at the following URL:
http://www.swcollege.com/quant/asw/asw-statistics_business_main.html).

Pelosi, and Sandifer, Doing Statistics for Business with Excel, 2nd Edition, 2002.

Groebner, Shannon, Fry, Smith, “Business Statistics: A Decision-Making Approach,” 5th ed. Upper Saddle River, NJ,: Prentice Hall, 2001.

Lind, Mason, and Marchal, “Basic Statistics for Business and Economics,” 3rd ed. Boston, MA:Irwin/McGraw Hill, 2000.

Mcclave, Benson, and Sincich, “Statistics for Business and Economics,” 8th ed. Upper Saddle River, NJ,: Prentice Hall, 2001.

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

Triola, “Elementary Statistics using Excel.” Boston, MA: Addison, Wesley, Longman, 2000.

VIII COURSE SCHEDULE:

| <u>Date</u> | <u>Chapter Title/Topic</u> | <u>Chapter</u> | <u>Assignments</u> |
|-------------|---|----------------|--|
| 8/24 | Introduction to Statistics | 1 | Submit Online (Due 8/31-before class) |
| 8/31 | Charts and Graphs Discuss Case Study 1 (Due 9/28) | 2 | Submit in class 9/14 |

| | | | |
|------------|---|--------|--|
| 9/7 | NO CLASS—Reading assignment Ch. 3/Notes Descriptive Statistics | 3 | Submit Online (Due 9/14- before class) |
| 9/14 | Probability | 4 | Submit Online (Due 9/18— ANSWERS WILL APPEAR ONLINE 9/19) |
| 9/21 | ***** EXAM 1 ***** | | |
| 9/28 | Discrete Random Variables | 5 | 5.9, 5.10, 5.13 (a-d) (Due 10/5—in class) |
| 10/5-10/12 | Continuous Random Variables | 6 | Submit Online (Due 10/16— ANSWERS WILL APPEAR ONLINE 10/17) |
| 10/19 | ***** EXAM 2 ***** | | |
| 10/26 | Sampling Distributions Interval Estimation | 7 8 | Submit Online (Due 11/9-before class) |
| 11/2 | Interval Estimation | 8 | |
| 11/9 | Discuss Case Study 2 (Due 11/30) Hypothesis Testing | 9 | Submit Online (Due 11/20— ANSWERS WILL APPEAR ONLINE 11/21) |
| 11/16 | Hypothesis Testing | 9 | |
| 11/23 | ***** EXAM 3 ***** (EXAM 3 will only cover Chapters 8 & 9) | | |
| 11/30 | Regression Analysis | 11 | Submit Online (Due 12/3— ANSWERS WILL APPEAR ONLINE 12/4) |
| 12/7 | ***** COMPREHENSIVE FINAL EXAM ***** | | |

INFORMATION OUTLINED IN THIS SYLLABUS IS SUBJECT TO CHANGE.

IX TEACHING STRATEGIES

This is a web enhanced course that involves lecture notes (classroom and virtual), homework, case studies, and exams. All assignments, case studies, homework solutions, and other course documentation will be provided

via the Internet. In addition, regular web discussion boards will be scheduled (and monitored) for group meetings.