

University of Florida Department of Statistics
STA 6167 Summer B 2011 Section 4331
MTWRF, Period 2 (9:30-10:45), FLO 100

Instructor Information:

Amy Cantrell, PhD
Clinical Assistant Professor
UF Department of Biostatistics
Office Hours: Immediately after class or by appointment

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Prerequisites: STA 6166 or permission of the instructor.

Course Overview: This is a three credit course which covers: Regression analysis; Design and analysis of experiments (randomized block, factorial, nested, and split-plot); Repeated measures data; Analysis of categorical data; Survival Analysis (time permitting).

Course Objectives:

- To prepare students with statistical skills needed to plan research projects.
- To prepare students with statistical skills needed to analyze research data.

Course Materials: No required textbook. Materials will be posted in Sakai during the semester.

E-Learning/Sakai: An E-Learning site in Sakai will be available for the course. Course materials, grades, discussion boards, and other information will be available in the E-Learning system which is accessible at lss.at.ufl.edu or through my.ufl.edu. You must have a valid Gatorlink ID and password. For assistance, call the UF Help Desk at 392-HELP

Course Requirements/Evaluation/Grading: This course will consist of a series of data analysis projects and 3 exams. The projects combined will count 25% of the final grade, and each exam will count 25%. The grading scale for this course consists of the scale below, including minus grades. The conversion factors for grade point values assigned to each grade are also included (in parentheses):

94% - 100% = A (4.00)	80% - 84% = B (3.00)	70% - 73% = C (2.00)	60% - 63% = D (1.00)
90% - 93% = A- (3.67)	77% - 79% = B- (2.67)	67% - 69% = C- (1.67)	57% - 59% = D- (0.67)
85% - 89% = B+ (3.33)	74% - 76% = C+ (2.33)	64% - 66% = D+ (1.33)	Below 57% = E (0.00)

For more detail on letter grades and university policies related to them, see the Registrar's Grade Policy regulations at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx#grades>

Topics: Specific topics covered in the course are listed below.

- Multiple Linear Regression
- Factorial Designs
- Split-Plot Designs
- Logistic Regression
- Nonlinear Regression
- Analysis of Covariance
- Nested Designs
- Repeated Measures Designs
- Poisson Regression
- Introduction to Survival Analysis

Computing Resources: Students are encouraged to complete analysis projects in either SAS or R. Other packages can also be used but are not fully supported by the instructor or TA.

- SAS and R code will be provided for all methods covered in the course on Sakai site.
- R can be downloaded for free from the website: <http://cran.r-project.org/bin/windows/base/>
- SAS licenses (not permanent, but while you are a student) can be purchased for \$35 in the basement of the bookstore or by going to: www.software.ufl.edu/sas

Notes:

- Homework problems may be assigned for practice, these will not be graded.
- Data Analysis Projects:
 - will be taken up and graded
 - must be handed in (hard copy), e-mail will not be accepted
- Exams:
 - are 75 minutes
 - may bring a copy of the t , χ^2 , F tables with hand written notes (1 sheet - 8.5x11")
- Grades are not negotiable.

Statement of University's Honesty Policy: At the University of Florida, each student is bound by the academic honesty guidelines of the University and the student conduct code printed in the Student Guide and on the University website. The Honor Code states: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." Cheating, lying, misrepresentation, or plagiarism in any form is unacceptable and inexcusable behavior. Students are expected to act in accordance with the University of Florida policy on academic integrity (see Student Conduct Code, the Graduate Student Handbook or this web site for more details: <http://www.dso.ufl.edu/sccr/>).

My personal expectations and comments regarding academic integrity: Students will often be encouraged to discuss the material with other members of the class on homework and other assignments. I believe we learn best when individual learning and group cooperation are present. However, I expect that no student will ever do any of the following:

- Have another person complete any assignment in this course
- Copy another student's work on any assignment in this course
- Use materials provided by a previous student in the course for any purpose

I want to stress that in this class, if you focus on learning the material and worry less about the grade you will receive, you will be rewarded with knowledge that will be much more useful to you in the future than the difference between an A, B, or even C in this class.

Policy Related to Class Attendance: Class attendance is mandatory. Excused absences follow the criteria of the UF Graduate Catalogue (e.g., illness, serious family emergency, military obligations, religious holidays), and should be communicated to the instructor prior to the missed class day when possible. UF rules require attendance during the first two course sessions. Regardless of attendance, students are responsible for all material presented in class and meeting the scheduled due dates for class assignments. Finally, students should read the assigned readings prior to the class meetings, and be prepared to discuss the material except for the first class session.

Classroom etiquette: Please come to class on time and be prepared to stay until the time scheduled as the end of class. Pagers and cell phones should not be used in class. The use of cell phones, text messaging, and pagers is a common complaint from students. Please turn them off. Another common complaint is “side” conversations among students. Please consider that your conversation may interrupt the attention of someone seated near you. Generally, you should be speaking to the class as a whole or participating in group discussions as directed by the instructor. I welcome in-class questions. Your question will nearly always be one that other students also have.

Policy Related to Make-up Exams or Other Work: Students are allowed to make up work ONLY as the result of illness or other unanticipated circumstances warranting a medical excuse and resulting in the student missing a homework or project deadline, consistent with University policy. Documentation from a health care provider is required. Work missed for any other reason will receive a grade of zero.

Accommodations for Students with Disabilities: If you require classroom accommodation because of a disability, you must first register with the Dean of Students Office (<http://www.dso.ufl.edu/>). The Dean of Students Office will provide documentation to you, which you then give to the instructor when requesting accommodation. The College is committed to providing reasonable accommodations to assist students in their coursework.

Counseling and Student Health: Students may occasionally have personal issues that arise in the course of pursuing higher education or that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the University of Florida Counseling Center, 352-392-1575, or Student Mental Health Services, 352-392-1171. Visit their web sites for more information: <http://www.counsel.ufl.edu/> or <http://www.shcc.ufl.edu/smhs/help.shtml>

The Student Health Care Center at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services, including primary care, women's health care, immunizations, mental health care, and pharmacy services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: www.health.ufl.edu/shcc

Crisis intervention is always available 24/7 from Alachua County Crisis Center: (352) 264-6789.

BUT – Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone so do not be afraid to ask for assistance.

Dr. Amy Cantrell

Weekly Schedule – Summer B 2011

Period	Monday	Tuesday	Wednesday	Thursday	Friday
2 9:30-10:45	STA 6167 FLO 100	STA 6167 FLO 100	STA 6167 FLO 100	STA 6167 FLO 100	STA 6167 FLO 100
3 11:00-12:15					
4 12:30-1:45		SAS PH DATA HPNP G105	BOE Statistics TUR 2333	SAS PH DATA HPNP G105	
5 2:00-3:15		SAS PH ANALYSIS HPNP G105		SAS PH ANALYSIS HPNP G105	
6 3:30-4:45					

- Please use this schedule as a guide to my availability
- Appointments available by request; Contact me via email to schedule.