

STA 4504/5503 Analysis of Categorical Data – Spring 2013

Section 7516/7519: M W F 2 (08:30 – 09:20) in FLO 100

Instructor:

Demetris Athienitis (dathien@stat.ufl.edu)

Office: Griffin Floyd 116B,

Phone: 352 – 273 – 2972

Office Hours: Office Hours subject to change and will be posted on the course website

Teaching Assistant:

TBA

Office:

Phone:

Office Hours: Office Hours subject to change and will be posted on the course website

Course Web Address: <http://www.stat.ufl.edu/~dathien/staucat.html>

Course Description:

This course requires as a prerequisite a grasp of basic statistical methods including linear models such as regression and ANOVA. Course content includes description and inference for binomial and multinomial observations using proportions and odds ratios; multi-way contingency tables; generalized linear models for discrete data; logistic regression for binary responses; multi-category logit models for nominal and ordinal responses; inference for matched-pairs and correlated clustered data; loglinear models.

The student is expected to learn when these methods may be applied, how to apply them, and how to properly interpret the results.

Course Materials Required:

An Introduction to Categorical Data Analysis, (2nd edition), by A. Agresti (Wiley, 2007). We will be covering the first 10 chapters of the book.

Software:

Examples will given and analyzed in R. Links will be posted on the class website. Analysis of datasets and examples in the book can be found at <http://statistics.unl.edu/faculty/bilder/stat875/r.htm>

Homework:

Complete homework solutions will be handed in to the TA to be graded on the exam dates. Homework problems are listed in the outline and it is acceptable for students to work together as long as the work handed in is uniquely yours. You are encouraged to address the TA if you have any difficulties.

Some homework require the use of statistical software and your solutions must show the use of software for exercises that require it by attaching relevant computer output.

Exams: There will be three exams, given on the dates that will be agreed to in class. The first exam should cover the first 4 topics and should be around **February 15th**. Exams will be given in class.

If you are unable to take an exam at the scheduled time, you must notify the instructor as early as possible. If an emergency situation precludes an advance arrangement, you should let the instructor know within 24 hours of the missed exam. Each case will be reviewed individually. You will be required to provide official documentation to be eligible for make-up examination.

Grades:

For Exams 1, 2 and 3, the best two account for 27.5% of the final grade and the worst of the three for 20%. The homework accounts for 25%.

Grading Scale:

The grading scale will be as follows:

A:	91-100%,	A-:	87- <91%,		
B+:	84- <87%,	B:	80- <84%,	B-:	77- <80%,
C+:	74- <77%,	C:	70- <74%,	C-:	67- <70%,
D+:	64- <67%,	D:	56- <64%,		
E:	< 55%.				

To see the effect of the + and – grades on your GPA, look at the following link:

<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>.

Course Policies:

Academic Dishonesty: I adhere to the University of Florida rules and guidelines for handling instances of academic dishonesty. Please refer to the Office of Students Services for detailed information about the current policies.

Instructor’s Honor Code: We the members of the University of Florida community pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

Grading: Grades will be changed only when an error has been made by the instructor.

Incomplete: Incompletes are only assigned when extraordinary circumstances, arising after the date for dropping off the course, prevent the student from completing the course requirements. The student must be currently passing the course and discuss the circumstances with the instructor before the final exam takes place. Having a failing grade in the course is not a valid reason for requesting an incomplete.

Getting Help: Students may ask questions during the lectures (preferred) or the office hours. The TAs will answer questions during office hours. A list of private tutors (if needed) may be obtained from the Statistics Department Secretary in Griffin Floyd 103.

Students with disabilities: Students requesting classroom accommodation must first register with the Dean of Students office. The Dean of Students will provide documentation to the students who must then provide this documentation to the Instructor when requesting information.

Privacy Policies: Student records are confidential. Only information designated “UF directory information” may be released without your written consent. UF views each student as the primary contact for all communication. If your parents contact me about your grade, attendance or other information that is not “UF directory information”. I will ask them to contact you.

The instructor reserves the right to update any parts of this syllabus as necessary. Students will be notified of any changes.

Note: There will be no classes on the following days

January 21st M.L. King Day

March 2nd-9th Spring Break