

ST 744: Categorical Data Analysis

Spring, 2009

Textbook (required)	Categorical Data Analysis , by A. Agresti, 2nd Ed., Wiley
	We will cover most materials from chapter 1 to chapter 7 and some materials from chapter 10 to chapter 12.
Prerequisite	ST 512 and ST 522
Class Hours	Tuesday & Thursday, 10:15 - 11:30 am
Location	Room 208, Patterson Hall
Instructor	Dr. Daowen Zhang 203B Patterson Tel: 515-1933 Email: zhang@stat.ncsu.edu
Office Hours	2:00-3:00 pm Tuesday or by appointment
Teaching Assistant Mihye Ahn	Email: mahn@ncsu.edu
TA Office Hours	TBA
Grading	Based on the weighted average (WA) of the following: Homework: 15% Mid-term (in class, closed book, notes & HW): 40%. It will be given some-time before Spring break (3/2-3/6). Final (in class, closed book, notes & HW, comprehensive): 45%. Thursday, 5/5/09, 8:00-11:00am

Grading chart

$97 \leq WA \leq 100$	A^+
$93 \leq WA \leq 96$	A
$90 \leq WA \leq 92$	A^-
$87 \leq WA \leq 89$	B^+
$83 \leq WA \leq 86$	B
$80 \leq WA \leq 82$	B^-
$77 \leq WA \leq 79$	C^+
$73 \leq WA \leq 76$	C
$70 \leq WA \leq 72$	C^-
$67 \leq WA \leq 69$	D^+
$63 \leq WA \leq 66$	D
$60 \leq WA \leq 62$	D^-
$0 \leq WA \leq 59$	F

Audit	Students auditing the class should earn at least 50% of the homework score to get an AU grade (exams not required). Otherwise an IN will be assigned.
Course description	This course will cover statistical models and methods appropriate to analyze categorical responses. Special attention will be paid to the analysis of contingency tables, logistic and Poisson regressions, and their extension generalized linear models. Models for repeated categorical data will also be introduced. Asymptotic as well as exact methods and their implementation using statistical software SAS will be discussed.
Course objective	Students in this class will be able to recognize different types of categorical data and use appropriate methodology for them. They will also be able to conduct statistical analysis using existing software and properly interpret the computer output.

Expectations:

- Students are expected to attend every class. However, not all details will be covered in class. So please read the book and ask questions whenever you have questions. If you decide to come to the class, please come on time. Your instructor and fellow students will appreciate it if their class is not interrupted.
- Homework will be assigned almost every week and it will be due at the **beginning** of the class. Late assignment (if not later than 2 business days) will be accepted, but only one will receive full credit and the rest will receive 75% of the full credit. Students are encouraged to work together, but copying homework directly from others is strictly prohibited.
- Academic integrity: It is understood that a student's signature on any test or assignment indicates that the student neither gave nor received any unauthorized aid from anyone. More details can be found in the following website:
http://www.ncsu.edu/policies/student_services/student_discipline/POL11.35.1.php