

Categorical Data Analysis

PSYC 695/895

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Class Times, Location: Monday 14:00-16:50, Fraser 458
Lab Time, Location: TBD

Course Description

This course introduces principles and analyses related to data with categorical outcomes. This course will consider topics such as probability distributions with categorical data, contingency table analysis, the generalized linear model, logit models and loglinear models. Students are expected to: a) learn to select methods appropriate for a question of interest for data with a categorical outcome, b) learn to apply categorical methods and interpret categorical analyses, and c) demonstrate critical thinking about the application of categorical methods.

Prerequisite: PSYC 790, equivalent, or consent of instructor

Textbook & Class Materials

Primary Text: An Introduction to Categorical Data Analysis, Second Edition, by Alan Agresti
Additional course materials will be distributed in class.

Class & Lab Attendance

Students are expected to try to attend all classes and labs. While attendance will not be taken, students missing a substantial number of classes or labs may incur a grade penalty. Some materials will be covered only in the text/handouts, only during class, or only during the lab; students are responsible for all materials.

Course Grades

A single course grade will be given for lecture and lab. Grades will be based on the following:

- Class Project: 275 points total. The primary grade in this class will be based on a paper in which several questions of interest are addressed by analyzing categorical outcomes. Progress towards the paper will consist of submitting a proposal (200 words), a complete draft, an in class presentation, and a revised copy of the paper (25, 100, 25, 125 points respectively). Each student is expected to produce a paper that consists entirely of his or her own work.

- Reviews: 120 points. Students will be asked to provide written reviews of the papers of three other students. These reviews should reflect your ability to demonstrate critical thinking about the application of categorical methods. Your reviews will not affect the paper grades of the students being reviewed.
- Lab Exercises: 55 points. There will be exercises to be completed during lab. These exercises will allow you to practice applying the ideas from lecture to data and writing up the results from analyses.

All students will be evaluated as graduate students; undergraduate course grades will be increased by 1/3 letter grade at the end of the semester to reflect differences in expectations.

Grading Scale:

450 - 420 points A	419 - 405 points A-
404 - 390 points B+	less than 389 points B or lower

Individual Needs

Please feel free to contact me privately with regards to your needs in this course. I am glad to make accommodations, particularly when warranted by the situation. Please also keep in mind that there are a large number of resources on campus for students. The KU writing center offers consultants to help you draft and edit your writing, or can offer feedback on your writing (<http://www.writing.ku.edu>). If you have a disability for which you wish to request accommodations, the Academic Achievement & Access Center coordinates accommodations and services for all KU students (<http://disability.ku.edu>). Counseling and Psychological Services can help students with issues related to college and other psychological, interpersonal, and family problems (<http://www.caps.ku.edu/>).

Class	Date	Reading	Assignments & Other Notes
1	8/20	Chapter 1	
2	8/27	Chapter 2	
	9/3		Labor Day
3	9/10	Chapter 3	
4	9/17	Chapter 4	
5	9/24	Chapter 5	
6	10/1		
	10/8		Fall Break
7	10/15	Chapter 6	
	10/16		Project Proposals Due
8	10/22	Chapter 7	
9	10/29		
10	11/5	Chapter 8, 9 & 10	
11	11/12		
	11/19		Project Day, Paper Drafts Due
12	11/26		Presentations, Reviews Due
13	12/3		Presentations, Reviews Due
	12/14		Final Paper Due at Noon