

# Stat/CSSS 536: Categorical Data Analysis Fall 2013, University of Washington

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## Course description

In this class, we will cover categorical and count data models, including measures of association for categorical variables, log-linear models, logistic, and other generalized linear models.

## Prerequisites

Students should be familiar with material covered in the CSSS math camp and/or CSSS 505. This includes basic calculus, matrix algebra, and probability. Math camp lectures for review are posted at <http://www.csss.washington.edu/MathCamp/Lectures/>. Students should also be familiar with **R** or another statistical computing environment.

## Website

All course materials (including an updated schedule) will be posted on the course Canvas site.

## Email

Please send all course related emails to [mcclass@uw.edu](mailto:mcclass@uw.edu). I will only answer email to this address. Do not use the Canvas inbox.

## Texts

Required text: Agresti. 2007. *An Introduction to Categorical Data Analysis*. Available as an ebook from the UW library. Supplemental readings may also be provided.

## Computing

Students may submit homework (including codes) using any statistical software package; however, support (example codes, assistance in office hours, etc.) will only be provided for **R**.

## Course components

- **Homework**

Homework assignments will involve a mixture of data analysis, interpretation of results, and mathematical exercises. Students are encouraged to work together on homework assignments, but each student must submit her/his own assignment and write their own explanations for data analysis problems. Late assignments are not accepted. Relevant codes must be submitted for credit. There will be 4-5 assignments.

- **Project**

A final research paper (approx. 10pgs) will be due on the university designated exam date. Students should work independently on the project. Details provided on Canvas.

## Grading

60% homework, 40% project