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. I will only answer email to this address. Do not use the Canvas inbox.

Texts
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