STAT 875 Categorical Data Analysis Spring 2023

## Instructor

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Office hours: Tuesdays after class, Thursdays at 11AM, and by appointment; office hours are inperson and on Zoom
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STAT 875 website: Available through <u>www.chrisbilder.com</u>; some additional items will be available on Canvas
Zoom: Web link available on Canvas

## Textbooks

Bilder, C. and Loughin, T. (2014). Analysis of Categorical Data with R. CRC Press.

Supplementary:

- Agresti, A. (2013). Categorical Data Analysis, 3rd edition. Wiley.
- Agresti, A. (2019). An Introduction to Categorical Data Analysis, 3rd edition. Wiley.

## Prerequisites

Required: STAT 801 (Statistical Methods in Research) or STAT 821 (Statistical Methods I) Helpful: STAT 870 (Multiple Regression Analysis) or equivalent

#### Grades

Grades will be based upon the following:

	High test	Low test	Final exam	Projects, quizzes, etc
% of grade	35%	15%	20%	30%

The "high test" and the "low test" correspond to the two tests taken prior to finals week. The highest (lowest) grade earned on these tests is given a weight of 35% (15%) toward the overall grade.

Grading Scale:

Α	В	С	D	F
≥90% and ≤100%	≥80% and <90%	≥70% and <80%	≥60% and <70%	<60%

+ and – letter grades are 2.5% from the above cut off points. For example,  $A^-$  is 90-92.5% and  $B^+$  is 87.5-90%.

All projects need to be turned in electronically via Word or PDF documents. A project completed in

an unreadable or unprofessional manner will be returned for a zero grade. No late projects or quizzes are accepted.

I recommend completing the projects in groups. If you work in a group, all group members are expected to participate equally and have a complete understanding of all components for it. I will lower a student's project grade if he/she does not abide by this group work policy.

### Statistical software

The statistical computing environment R will be used extensively in this class. R is available to download for free from <u>http://www.r-project.org</u>. Links to download the Windows and Mac versions are <u>http://cran.r-project.org/bin/windows/base</u> and <u>https://cran.r-project.org/bin/macosx</u>, respectively.

## **Class recordings**

All classes will be recorded during the semester. Links to these recordings will be posted to the course website. Please do not abuse their availability by skipping class. Use these recordings to review and as a back-up if extenuating circumstances prevent you from attending class.

## **Final exam**

The final exam is scheduled for 10AM-12PM on Thursday, May 18.

## **Expectations of students**

Students are expected in this class to

- 1. Understand all the material in the course notes
- 2. Understand all programming code and calculations
- 3. Reproduce all parts of the examples in the course notes
- 4. Watch the videos
- 5. Ask questions when something is not clear

# **Additional statements**

Please see the online syllabus supplement for additional statements that are required to be part of all syllabi at UNL.