STAT 875
Categorical Data Analysis
Spring 2021

## Instructor

Name: Christopher R. Bilder, Ph.D.
Office: Hardin Hall 342C
Office hours: Tuesdays after class (at least for 30 minutes), Thursdays at 2:30PM (at least for 30 minutes), and by appointment; all office hours are Zoom only (see Canvas for address)
E-mail: bilder@unl.edu
STAT 875 website: Available through www.chrisbilder.com; some additional items will be 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.

## Prerequisites

STAT 801 (Statistical Methods in Research)
STAT 870 (Multiple Regression Analysis) or equivalent is recommended

## Grades

Grades will be based upon the following:

| | **Test #1** | **Test #2** | **Final Exam** | **Projects, Quizzes, etc...** |
|---|---|---|---|---|
| **% of grade** | 25% | 25% | 20% | 30% |

Grading Scale:

| **A** | **B** | **C** | **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%.

You are required to turn in all projects electronically, and all projects need to be completed in Word or PDF documents. A project completed in an unreadable or unprofessional manner will be returned to the student for a zero grade. No late projects, quizzes, etc. will be 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 http://www.r-project.org. The specific link to download the Windows version is http://cran.r-project.org/bin/windows/base.

**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 the availability of these recordings by skipping class. I recommend using the recordings as a way to review and as a back-up if extenuating circumstances prevent you from attending class.

**Final exam**

The final exam is scheduled for 3:30PM to 5:30PM on Tuesday, May 4.

**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. Complete the homework
6. Reproduce all problems in old projects and tests
7. 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.