

STAT 475/875

Introduction to Categorical Data Analysis and Categorical Data Analysis

Spring 2026

Instructor

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STAT 475/875 website: Available through www.chrisbilder.com; additional items on Canvas

Textbooks

Bilder, C. and Loughin, T. (2024). *Analysis of Categorical Data with R*, 2nd edition. 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

STAT 475

• Required: STAT 301 (Mathematical Statistics and Modeling I) or STAT 450 (Introduction to Regression Analysis)

STAT 875

• Required: STAT 801 (Statistical Methods in Research) or STAT 821 (Statistical Methods I)

• Helpful: STAT 870 (Multiple Regression Analysis) or equivalent

Grades

There will be two regular tests during the semester and one comprehensive final test at the end of the semester. With these three tests, the lowest grade will be dropped. If you miss a test, it will be your drop test. This policy includes class absences that are “university excused” or due to extenuating circumstances. If you miss more than one test, please contact me to discuss the situation and include any documented proof needed to support your case.

Overall course grades will be based on the following:

	Highest test	Second highest test	Projects and quizzes
% of grade	35%	35%	30%

STAT 475 grading scale:

A	B	C	D	F
$\geq 87.5\%$ and $\leq 100\%$	$\geq 75\%$ and $< 87.5\%$	$\geq 62.5\%$ and $< 75\%$	$\geq 50\%$ and $< 62.5\%$	$< 50\%$

STAT 875 grading scale:

A	B	C	D	F
≥90% and ≤100%	≥80% and <90%	≥70% and <80%	≥60% and <70%	<60%

The + 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% for STAT 875.

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 they do 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>. Links to download the Windows and Mac versions are <http://cran.r-project.org/bin/windows/base> and <https://cran.r-project.org/bin/macosx>, respectively.

Class recordings

All Tuesday classes will be recorded during the semester. Links to these recordings will be posted to the schedule web page on the course website. Please use these recordings to review and as a back-up if extenuating circumstances prevent you from attending class.

Final test

The final test is scheduled for 3:30PM-5:30PM on Thursday, May 7.

Expectations of students

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. Examine the practice problems
6. Ask questions when something is not clear

Instructional continuity

Plans will be posted to the Canvas discussion board if UNL is closed because of the weather or for other reasons.

Additional information

Please see <https://executivevc.unl.edu/academic-excellence/teaching-resources/course-policies>.