

Instructor

Name: Christopher R. Bilder, Ph.D.

Office: Hardin Hall 342C

Office hours: Tuesdays after class (at least for 30 minutes), Thursdays at 12:30PM (at least for 30 minutes), and by appointment; all office hours are on Zoom (see Canvas for address)

E-mail: bilder@unl.edu

STAT 880 website: Available through www.chrisbilder.com; some additional items will be available on Canvas

Textbooks

Wackerly, D., Mendenhall, W., and Scheaffer, R. (2008). *Mathematical Statistics with Applications*, 7th edition.

Walpole, R., Myers, R., Myers, S., and Ye, K. (2017). *Probability & Statistics for Engineers & Scientists* (9th edition).

Prerequisites

Calculus II and a previous introductory course in statistics like STAT 218

Grades

Grades will be based upon the following:

	Tests*	Final Exam	Projects, Quizzes, etc.**
% of grade	50%	20%	30%

* There will be three tests during the semester with the lowest grade on them dropped. The remaining two tests each will be worth 25% of your overall course grade. If you miss a test, this 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.

** This part will be based on the total number of points earned out of the total number of points possible.

Grading Scale:

A	B	C	D	F
$\geq 90\%$ and $\leq 100\%$	$\geq 80\%$ and $< 90\%$	$\geq 70\%$ and $< 80\%$	$\geq 60\%$ and $< 70\%$	$< 60\%$

+ and – letter grades are 2.5% from where the grade levels change. 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.

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>.

The symbolic computing environment Sage will be used in this class as well. This will help with algebra and calculus. Sage is available to download for free from <https://www.sagemath.org>; however, we will focus on using a web-based version available via a Jupyter Notebook at <https://cocalc.com>.

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 10:00AM to 12:00PM on Friday, May 7.

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.