

Instructor

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Office: Hardin Hall 342C
Office hours: Tuesdays and Thursdays after class until 10:45AM; also by appointment
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Course website: Available through www.chrisbilder.com; some additional items will be available on Canvas

Suggested readings

Everitt, B. and Hothorn, T. (2011). *An Introduction to Applied Multivariate Analysis with R*. Springer. Online version available through UNL library.
Johnson, D. (1998). *Applied Multivariate Methods for Data Analysts*. Duxbury Press.
Johnson, R. and Wichern, D. (2007). *Applied Multivariate Statistical Analysis*. Wiley.
Zelterman, D. (2015). *Applied Multivariate Statistics with R*. Springer. Online version available through UNL library.

Prerequisites

STAT 801: Statistical Methods in Research
Strongly recommended courses – Regression modeling (STAT 870) and matrix algebra

Grades

Grades will be based upon the following:

	Test #1	Test #2	Test #3	Final Exam	Projects and quizzes
% of grade	5%	20%	20%	25%	30%

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 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 <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 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 7:30AM to 9:30AM on Thursday, December 14.

Expectations of students

Students are expected in this course 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. Review the class recordings
5. Examine the practice problems
6. 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.