

STAT 342: Statistical Data Analysis II

Spring 2016

Section 001: 12:30-1:45 Tues/Thurs, Scott Bioengineering, Room 229

Instructor: Dan Cooley

217 Statistics

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OH: 2:00-3:00 Thurs (or by email appointment)

GTA: Xiaoming Xu

007 Statistics

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Catalog Description: Single-factor analysis of variance models; multi-factor analysis of variance models; randomized block design; Latin squares; split-plot design.

Learning Objectives: Upon completion of this course, students will be able to:

1. Consider a research question and design an appropriate experiment to answer the research question.
2. Perform single ANOVA and multiple ANOVA analyses and interpret the results.

Prerequisites: STAT 340 or STAT 341.

Required Text: Douglas C. Montgomery, *Design and Analysis of Experiments*

Course Web Page on Canvas:

Much of the course material and information will be available on Canvas.

Computing:

Students will need to have access to R. R is available from <http://cran.r-project.org/> and is free. R is also available in the statistics computing lab Weber 206. Weber 206 is usually open from 8am to 10pm, Monday through Thursday and 8am to 4:45pm on Friday. The lab usually closes at 4:45pm during the first week of classes and also during finals week. Please read the information at <http://www.cs.colostate.edu/~dzubera/lab.html> concerning policies for the Weber 206 lab.

Grading:

	% of Grade	Date
Homework	30%	Weekly
Midterm 1	20%	February 16 (tentative)
Midterm 2	20%	March 29 (tentative)
Final Exam	30%	May 11 6:20-8:20 pm

Grades will be assigned as follows:

98-100	A+
92-97.9	A
90-91.9	A-
88-89.9	B+
82-87.9	B
80-81.9	B-
78-79.9	C+
70-77.9	C
60-69.9	D
< 60	F

Notes about grades:

1. Drop deadline: January 22.
2. Withdrawal deadline: March 21.
3. No homeworks are dropped.
4. Extra credit is never given. Grades are based solely on the homework and exam scores.

Homework: Homework will be assigned weekly, and will typically be posted on Canvas on Thursday or Friday and due at 4:00 pm Friday of the following week. Homework is to be turned into the STAT342 folder in the homework cart which is near the door of Statistics 102. Students are encouraged to discuss homework with each other; however, the write-up of the solutions must be done individually.

Exams: Exams are in class. For any exam conflicts, please see the instructor at least one week prior to the scheduled exam date. Also see the instructor for exam grading problems.

Special accommodations: If you are a student who will need accommodations in this class, please contact Resources for Disabled Students (rds.colostate.edu).

Academic dishonesty will not be tolerated. Students are reminded of the honor code:

As a student at Colorado State University, I recognize my active role in building a Campus of Character. This includes my commitment to honesty, integrity, and responsibility within the campus community. As such, I will refrain from acts of academic misconduct.

Disclaimer: The instructor reserves the right to change this syllabus.