Instructor
Dr. Catherine Calder
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Grader
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Please send all emails from an OSU account.

Course Description
This is the first course in a two-semester non-calculus sequence in data analysis covering descriptive statistics, design of experiments, probability, statistical inference (one- and two-sample problem, goodness of fit, and one-way ANOVA).

STAT 5301 is a GE Data Analysis course.

GOALS
Students develop skills in drawing conclusions and critically evaluating results based on data.

EXPECTED LEARNING OUTCOMES
Students understand basic concepts of statistics and probability, comprehend methods needed to analyze and critically evaluate statistical arguments, and recognize the importance of statistical ideas.

Prerequisites
MATH 1075 (104) or equivalent, or Math Placement Level of R, or permission of instructor. Not open to students with credit for STAT 5301 (STAT 528 and STAT 529).

Website
http://www.stat.osu.edu/~calder/stat5301-au12/
The class schedule, important announcements, lecture notes, homework problems and solutions, and other information about the course will be posted on Carmen (http://www.carmen.osu.edu).

Lectures
TWThF 3-3:55pm in 0054 Scott Laboratory (SO)
Lecture notes, with corresponding reading assignment from the textbooks, will be posted on Carmen. Please print out a copy of the lecture notes before class. There will be parts of the notes that you should fill in during lecture, and you may need to take separate notes on examples that are not in the lecture notes. Unless instructed otherwise, you are responsible for all of the material listed as a reading assignment, even if some of the material is not covered in class. If you are unsure if you are responsible for a particular topic, be sure to ask the instructor.

You are expected to attend every class. This course moves very fast, and it is essential that you stay on top of the material we are currently covering. If you have to miss class, please check with another student to see what you missed and to get the completed lecture notes.

Please feel free to ask questions and let the instructor know if you cannot read something that has been written or if you spot an error/typo.
Required Textbooks


   We will only cover Chapters 1-9 of this book. Students who prefer not to by the full textbook may purchase an e-book version of the first nine chapters through the publisher [http://ebooks.bfwpub.com/ips7e.php](http://ebooks.bfwpub.com/ips7e.php); Custom Version Number: 1113336).


   This is currently the textbook used in STAT 5302, the second course in the Intermediate Data Analysis sequence.

Midterm Exams

There will be two in-class midterms (tentatively) given on Friday, Sept. 21st and Friday, Oct. 19th. Re-grade requests on the midterm exam must be submitted to the instructor in writing within one week of the day the midterms are handed back. Please bring a calculator to the midterm exam.

Final Exam

The final exam will be held on Tuesday, Dec. 11th from 4:00pm-5:45pm. The exam will be cumulative, but will emphasize the more recent material. Please bring a calculator to the final exam.

Homework Assignments

There will be fourteen homework assignments for the course. You are encouraged to work together on the problems, but each student must hand in his or her own work. DO NOT COPY any part of another student’s homework including computer output. Please submit the questions in order and staple your homework. Homework assignments may be typed or legibly hand written. Raw computer output is not an acceptable answer to a homework question. You should make it make it clear what parts of the output are relevant and show how they answer the specific questions asked.

Solutions to the homework problems will be posted on Carmen. Late homework assignments will NOT be accepted. If you are unable to come to class the day a homework assignment is due, please contact the instructor in advance. Re-grade requests on the homework problems must be submitted in writing to the course grader within one week of the day the assignments are returned.

Grading

The following is a breakdown of your final course grade:

- Homework: 20% (lowest two scores will be dropped)
- Midterm 1: 20%
- Midterm 2: 20%
- Final Exam: 40%

Final grades in the course may be curved if necessary.

Computing

This class requires you to use the statistical software package called MINITAB. This software is available at many Student Computer Centers ([see](http://ocio.osu.edu/elearning/labs-and-classrooms/)).
labs for more information). It is also available for purchase (about $100) or limited-time rental (about $30 for 6 months or about $50 for 12 months) from On The Hub: [http://www.onthehub.com/](http://www.onthehub.com/)

**Enrollment**

All ADDS or SECTION CHANGES are done through Buckeye Link. You may attend the class you hope to enroll in the first week, but you may not take a seat from an enrolled student. Please see Patty Shoults in 404 Cockins Hall for assistance in resolving enrollment issues. The instructor will NOT under any circumstances sign paperwork regarding course admission.

**Special Accommodations**

If you need any accommodations based on the impact of a documented disability contact the instructor privately to discuss your specific needs. You should also contact the Office of Disability Services to coordinate special accommodations.

**Academic Misconduct**

Academic misconduct *will not be tolerated* and will be dealt with procedurally in accordance with university policy. Please see the Committee on Academic Misconducts website for details: [http://oaa.osu.edu/coam.html](http://oaa.osu.edu/coam.html)