1 General Information

Instructor: Kate Cowles
335-0727
kate-cowles@uiowa.edu

Zoom office hours:
T 2:00 - 3:00 p.m.
W 1:00 - 2:00 p.m.
Th 1:30 - 2:30 p.m.
Please feel free to make appointments to Zoom with me outside of office hours, and to send me questions by e-mail.

TA: Hongda Zhang
hongda-zhang@uiowa.edu
Office Hour: Th 9:00 a.m. - noon

Department: Statistics and Actuarial Science, 241 SH

DEO: Dr. Kung-Sik Chan, 241 SH, 335-0712
kung-sik-chan@uiowa.edu

Zoom lectures: M, W 11:30-12:20 Use “Lectures” Zoom link in ICON Zoom section

Zoom lab: Will replace lecture every Fri. Use Zoom link from TA

2013, Freeman


2 Course description

Methods of data description and analysis using SAS: descriptive statistics, graphical presentation, estimation, hypothesis testing, sample size, power; emphasis on learning statistical methods and concepts through hands-on experience with real data. GE: Quantitative or Formal Reasoning.

3 Mode of presentation

The course will be presented online, with a hybrid option for the Friday computer labs.

Lectures will be offered live by Zoom at the scheduled time (MW at 11:30 a.m.). To access the live Zoom sessions, click “Zoom” in the menu in this ICON page and then click on the link for lectures. You are expected to attend the live sessions. The Zoom lectures will be recorded, and I will post links after the fact. Access to the recordings will be restricted to class members.
Our TA, Hongda Zhang, will present computer labs live by Zoom on Fridays at the times of the discussions sections. He has set up Zoom links in the ICON web pages for the three sections. For students who wish to participate in the Zoom labs in a UI computer lab rather than using their own laptops, the ITC in 41 SH has been reserved for STAT:2010/4200 students during each of the three Friday discussion section hours.

Office hours also will be by Zoom but will not be recorded. To drop in on an office hour, click “Zoom” use the link for office hours in the “Zoom” section of the ICON web page.

You are welcome to email me at any time, and to request individual Zoom meetings if needed.

Let me know if you have problems with Internet access.

4 Course goals and objectives

Through hands-on experience with real data from a wide variety of applications, students will learn basic methods required for data analysis and interpretation. The emphasis will be on formulating questions, choosing appropriate statistical techniques for a given problem, verifying whether the assumptions behind the techniques are met by the dataset, drawing appropriate conclusions from the analysis, and communicating the results. Students will learn the basics of SAS, a statistical software package that is widely used in business, industry, government, and research.

STAT:2010 is approved for General Education in the Quantitative or Formal Reasoning category.

5 Expectations for attendance and student effort

- Students are expected to attend all lectures and labs. Roll will be taken on approximately 5 randomly-selected dates during the semester. Please let me know if you have a family emergency or are ill and need to miss class.

- Students are expected to turn in all homework and project components by the deadlines. On average, students will need to spend about 2 hours outside of class for each one hour of class time. Some weeks will be lighter, others heavier.

6 Evaluation of students

6.1 Homework

In general, homework will be assigned each Fri. and will be due the following Fri. T 11:30 by electronic submission in ICON. Exceptions to this schedule will be announced in class.
Show your work when solving written homework problems. For computer problems, turn in printouts of your commands or programs and their output.

You are encouraged to study with others. However, if you do work with others on homework assignments, please: a) write up your own assignment and make sure you completely understand all solutions that you submit, and b) write the names of the others in your study group on your assignment.

Late homework is accepted only as required by university policy, i.e. due to “illness, mandatory religious obligations, or other unavoidable circumstances or University activities.” Documentation must be provided.

6.2 Exams

There will be three 50-minute midterm exams and one comprehensive 2-hour final. They will be given online as ICON quizzes. Students may use one 8-1/2 x 11 in. sheet of paper with notes for each midterm, and four sheets for the final exam.

Midterm 1 Wed. 3/03
Midterm 2 Wed. 3/31
Midterm 3 Wed. 4/28
Final exam TBA

Missed exams may be made up only with documentation of reasons required by university policy (see “Late Homework” above).

6.3 Grading

The course components will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
</tr>
<tr>
<td>Midterms</td>
<td>51%</td>
</tr>
<tr>
<td>Final</td>
<td>34%</td>
</tr>
</tbody>
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7 Extra Help

The Statistics Tutorial Lab gives free tutorial assistance to students in 22S:2, 8, 25, and 39. In addition, several graduate students have volunteered to independently tutor students in various STAT courses at mutually-arranged times and fees. Please check the web site www.stat.uiowa.edu/courses/tutoring.html for tutoring details.

8 College of Liberal Arts and Sciences: Policies and Resources

The CLAS policies and procedures are stated at the following link:
9 Course schedule

This approximate schedule will be updated as needed during the semester.

1/25 - 1/29  Chapter 1, 2
2/01 - 2/05  Chapter 3
2/08 - 2/12  Chapter 4, 5
2/15 - 2/19  Chapter 5, 8
2/22 - 2/26  Chapter 9
3/01 - 3/05  Chapter 10-11
        instructional break 03/02 (no office hr)
        midterm 1 3/03
3/08 - 3/12  Chapter 14, 15
3/15 - 3/19  Chapter 15, 16
3/22 - 3/26  Chapter 16, 18
3/29 - 4/02  Chapter 18
        midterm 2 03/31
4/05 - 4/09  Chapter 19, 20
4/12 - 4/16  Chapters 20, 21, 23
        instructional break 04/14 (no lecture)
4/19 - 4/23  Chapters 23, 25
4/26 - 04/30  Chapter 24
        midterm 3 4/28
5/03 - 5/07  Review and special presentations
Exam wk 5/10-14 Final exam