Statistics for Business, 22S:008, Fall 2007
Monday & Wednesday, 3:30-4:45 PM, Macbride Auditorium
http://www.stat.uiowa.edu/~mbognar

The University of Iowa
College of Liberal Arts and Sciences
Department of Statistics and Actuarial Science

• General Information
  - Instructor: Matt Bognar, 358 SH, 335-0799, mbognar@stat.uiowa.edu
  - Office Hours: 12:30-2:30 Monday, 9:05-10:30 Wednesday
  - TA's: See website

• Course Objectives
  - In this course we will cover the following topics (in roughly this order):
    1. Statistical graphics, summary statistics (chapter 1)
    2. Normal distribution (chapter 1)
    3. Sampling techniques, randomisation, experimental design (chapter 3)
    4. Probability (chapters 4 and 5)
    5. Probability distributions (chapters 4 and 5)
    6. Sampling distributions (chapter 4)
    7. Inference for a population mean(s) (chapters 6 and 7)
    8. Inference for a population proportion(s) (chapter 8)
    9. Inference for two-way contingency tables (chapter 9)
   10. Type I & II errors, statistical power (chapter 6.4)
   11. Correlation and regression (chapters 2 and 10)
   12. Multiple regression (chapter 11)
   13. Other topics (if time)
  - We will learn how to do many of the statistical analyses described in class in the statistical software package Minitab. Hand computation will be stressed, however.
  - Supplementation to the textbook, when needed, will be provided.
  - We will not cover all parts of each chapter listed above. Any non-vital sections will be omitted. Focus your readings on the material that was covered in class.

• Grading
  - Exams: There will be 2 midterms (20% each) and a final exam (20%). All exams will be 2 hours in length. Exam dates:
    * Exam 1: Thursday, September 27, 8:00-10:00 PM
    * Exam 2: Thursday, November 1, 8:00-10:00 PM
    * Final Exam: Wednesday, December 19, 9:45-11:45 AM
  Students are expected to be present for the exams at the scheduled time. It is your responsibility to make the appropriate arrangements beforehand. Only in extreme circumstances will make-up exams be allowed.
  - Quizzes: (15% total) A quiz will be given in lecture each Wednesday. Make-up quizzes will not be allowed under any circumstances. The lowest two quiz scores will be dropped. Unannounced quizzes may be given (in lecture or discussion) at any time.
Homework: (10% total) Homework will be due each Thursday in discussion. Because the TA’s will not have enough time to grade each problem, a subset of the assigned problems will be graded. Late homework will not be accepted under any circumstances. The lowest two homework scores will be dropped. Homework must be stapled, defuzzed, be neatly written in pencil, and look professional (points will be deducted for failing to do so). Excessively sloppy homework will receive a score of 0. Print your name and TA/discussion time in the upper right corner of your homework before handing-in.

Mini-Quizzes: (7.5% total) An unannounced mini-quiz will periodically be administered in lecture (and possibly discussion). Make-up mini-quizzes will not be allowed under any circumstances. The lowest mini-quiz score will be dropped.

Discussion: (7.5% total) Your TA will evaluate you via attendance, unannounced quizzes, preparedness, participation, etc. Make sure you are clear about your TA’s policies and expectations regarding the discussion grade.

Your attendance, participation, preparedness, work ethic, etc. may affect your grade as well.

This course uses the +/− grading system (i.e. grades such as A−, B+, and B will be assigned).

Notes

Please turn off (or silence) cell phones and pagers during lecture and discussion.

Success in this class requires a large time commitment. A minimum of 15 hours per week is expected. Review/study numerous times throughout the week.

The material in this course appears deceptively easy. Even though the material may (at times) look easy in lecture (and discussion), you will find that doing problems on your own is much, much harder. You can not passively learn Statistics; you need to invest the required time to form a deep, thorough understanding. Don’t memorise! Frequently quizzing/testing yourself is the best, most efficient way to learn the material.

You are expected to attend lectures and discussions in their entirety.

If you are absent from discussion or lecture (without giving prior notice to your TA), do not ask for handouts/notes from the TA’s or myself.

You are expected to be, at all times, respectful of your TA and fellow students. I will take strong action against those who fail to do so.

Some students will do well on the homework, but poorly on the exams (and quizzes). Because the homework is open book and open note, it does not, I feel, represent your true understanding.

If you feel the exams are “tricky”, then you do not fully understand the material.

TA’s will field very few (if any) questions about homework the day it is due.

I reserve the right to give bonus points at any time, using any means I wish. The bonus points may be applied to any part of your grade.

This class is not “curved”.

Extra Help

Statistics Tutorial Lab: There is a free statistics tutorial lab in room 202 Communications Center. During available times, a knowledgeable person will be present to assist students. Hours for the lab can be found at http://www.stat.uiowa.edu/courses/tutorial-lab.html

A list of non-free tutors can be found at http://www.stat.uiowa.edu/courses/tutors.html

The College of Liberal Arts and Sciences Policy and Procedures

Governance: Course policies are governed by the College of Liberal Arts and Sciences

Academic Fraud: Plagiarism and any other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences. http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml
- **Making a Suggestion or a Complaint:** Students have the right to make suggestions or complaints and should first visit with the instructor, then with the course supervisor if appropriate, and next with the departmental DEO. All complaints must be made within six months of the incident. [http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5](http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5)

- **Accommodations for Disabilities:** A student seeking academic accommodations first must register with Student Disability Services and then meet with a SDS counselor who determines eligibility for services. A student approved for accommodations should meet privately with the course instructor to arrange particular accommodations. [http://www.uiowa.edu/~sds](http://www.uiowa.edu/~sds)

- **Understanding Sexual Harassment:** Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. Visit [http://www.sexualharassment.uiowa.edu](http://www.sexualharassment.uiowa.edu) for definitions, assistance, and the full policy.

- **Administrative Home of the Course:** The administrative home of this course is the College of Liberal Arts and Sciences, which governs academic matters relating to the course such as the add / drop deadlines, the second-grade-only option, issues concerning academic fraud or academic probation, and how credits are applied for various CLAS requirements. Please keep in mind that different colleges might have different policies. If you have questions about these or other CLAS policies, visit your academic advisor or 120 Schaefer Hall and speak with the staff. The CLAS Academic Handbook is another useful source of information on CLAS academic policy: [http://www.clas.uiowa.edu/students/academic_handbook/index.shtml](http://www.clas.uiowa.edu/students/academic_handbook/index.shtml)