

Statistics for Business (22S:008)
Spring 2007

• **General Information**

- *Instructor:* Matt Bognar, 358 SH, 335-0799, mbognar@stat.uiowa.edu
- *Website:* <http://www.stat.uiowa.edu/~mbognar>
- *Office Hours:* 9:30-11:30 Monday, 1:30-3:00 Wednesday
- *TA's:* See website
- *DEO:* Luke Tierney, 241 SH, 335-0712
- *Textbook:* Moore, McCabe, Duckworth, and Sclove (2003), *The Practice of Business Statistics*, Freeman.

• **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, randomization, 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. Correlation and regression (chapters 2 and 10)
 11. Multiple regression (chapter 11)
 12. 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.

• **Grading**

- *Exams:* There will be 2 midterms (20% each) and a final exam (25%). All exams will be 2 hours in length. Exam dates:
 - * Exam 1: Thursday, February 15, 8:00-10:00 PM (rooms TBA)
 - * Exam 2: Thursday, March 29, 8:00-10:00 PM (rooms TBA)
 - * Final Exam: Monday, May 7, 2:15-4:15 PM (rooms TBA)

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:* A quiz will be given each Wednesday in lecture (20% total). You will have approximately 15 minutes to complete the quiz. *Make-up quizzes will not be allowed under any circumstances.* The lowest two quiz scores will be dropped, however. Unannounced quizzes may be given (in lecture or discussion) at any time.
- *Homework:* Homework (10% total) 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, however. Homework must be stapled, have no fuzzy edges, 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.

- *Discussion*: In discussion (5% total), your TA will evaluate you via unannounced quizzes, attendance, preparedness, participation, etc. Your TA has complete freedom in allocating the discussion grade, so make sure you are clear about his/her particular policies and expectations.
- Other factors which may influence ones grade in this course: attendance, participation, preparedness, work ethic, etc.

- **Notes**

- Please turn off (or silence) cell phones and pagers during lecture and discussion.
- The material in this course appears *deceptively* easy. The material may look easy during lecture, but you will find that doing problems on your own is much, much harder.
- A *minimum* of 15 hours per week spent studying the material is strongly recommended. Review the material numerous times throughout the week.
- It is common for students to do well on the homework, but poorly on the exams. Because homework is open book, open note, and can be discussed in discussion, it does not, I feel, represent your true comprehension of the material.
- You are expected to not leave lecture or discussion early. I reserve the right to penalize (by any means I wish) students that do so.
- 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.
- You are expected to be, at all times, respectful of your TA and fellow students. Failure to do so will result in a failing grade and your removal from this course. In addition, I will petition for your removal from the University. The TA's have been instructed to report any poor behavior directly to me.
- 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.
- The curve, if any, will be very small.
- If you feel the exams are “tricky”, then you do *not* fully understand the material (i.e. your knowledge is superficial).
- Getting a good grade on the homework, quizzes, and in discussion is not sufficient to pass this course. Remember, 65% of your grade is based upon the exams.
- I have found that frequently quizzing/testing yourself is the best, most efficient way to learn the material. Practice is crucial to success.

- **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>

- **Policies**

- Course policies are governed by the College of Liberal Arts and Sciences.
- University policies regarding Student Rights and Responsibilities can be found at http://www.clas.uiowa.edu/students/academic_handbook
- The Collegiate policy on Academic Fraud can be found at http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml
- Student complaints should initially be presented to your TA. If your TA is unable to resolve your complaint, please contact Matt.

- **Students with Disabilities**

- I must hear from anyone who has a disability which may require a modification of the seating, testing, or other class requirements so that appropriate arrangements can be made. Please see me as soon as possible about this.