22S:25/7P:25  ELEMENTARY STATISTICS AND INFEERENCE  Fall 2007

TIME/LOCATION  Lecture C, 11:30-12:20, MWF, C20 PC
Lecture B Disc. Sections: #33 12:30-1:20, T, 74 SH  #37 3:30-4:20, T, 151SH
#34 12:30-1:20, Th, 74 SH  #38 3:30-4:20, Th, 151SH
#35 2:30-3:20, T, 74 SH  #39 4:30-5:20, T, 30 SH
#36 2:30-3:20, Th, 74 SH  #40 4:30-5:20, Th, 118 MH

INSTRUCTOR  M. Russo  257 SH, 353-2295, mrusso@stat.uiowa.edu
INSTRUCTOR WEBPAGE  http://www.stat.uiowa.edu/~mrusso/

COURSE WEBPAGE  http://www.stat.uiowa.edu/~mrusso/courses.htm
Please refer to the webpage throughout the semester for important announcements and course information.

OFFICE HOURS  Tues. 10:00-12:00, Wed. 12:30-1:30, and by appointment
( Occasionally, hours may be rescheduled to accommodate students who plan to attend -- announcements of changes will be made in class and on the webpage.)

PREREQUISITE  22M:001 (Basic Algebra I) or equivalent

and worksheets/supplements/notes from the course webpage. Please bring printed copies of the worksheets to class. Note that one copy of the text has been placed on reserve at the Math Library in MLH.

COURSE TOPICS  graphing techniques for presenting data, descriptive statistics, the normal distribution, correlation, regression and prediction, probability, sampling distribution models, logic of statistical inference, estimation and tests of significance

GOALS  This course has been approved to satisfy the General Education Program (GER) requirement in Quantitative or Formal Reasoning. Courses approved in this area have as their primary purpose the development of the analytical powers of the student as they might be exercised in presentation and evaluation of mathematical or other formal symbolic systems. Additional information concerning the goals and content of GER courses can be found at http://www.clas.uiowa.edu/students/academic_handbook/vi_quantitative.shtml

LECTURES  Topics from Chapters 3-28 of the text will be covered. Some additional material will be presented. Notation, theory, problems, and procedures will be explained in detail. Notes should be taken. Bring your text, worksheets, and calculator. (Note: some restrictions concerning calculators will be announced.)

ATTENDANCE  is required in both the lecture and discussion. Absences usually lead to lower scores on quizzes and exams.

DISCUSSION SESSIONS  Discussion sections will be held once a week (by the TA) on Tuesday or Thursday. Attendance will be taken. The TA will go over some of the homework, present sample problems, and answer questions. The TA will return quizzes and exams and demonstrate the "most missed" problems.

CLASSROOM DECORUM  requires that you do not engage in conversation or read a newspaper during lecture or discussion, and that you do not arrive late or leave early. Such activities are discourteous to the instructor and to your classmates.

QUIZZES  (approx. 6) lasting about 15 minutes will be given in the lectures. Quiz dates (Mondays) and topics will be announced in class the week before. Quizzes consist of several "show your work" type problems. The lowest quiz score for each student will be dropped.
**HOMEWORK** will be collected in class each Friday (and occasionally, on one of the other days). An assignment sheet listing problems from the text will be given on the webpage. **Supplemental** homework problems will be posted on the webpage. Both the review problems from the text AND the supplemental problems will be collected. Assignments and due dates will be announced and posted. **Late homework** will be penalized.

For each homework problem, **show the necessary work** and clearly indicate your answer. Include enough detail to demonstrate your method for finding the answer. Sketches and graphs are helpful. All homework should be prepared on 8.5 by 11 inch paper (not torn from a spiral notebook) and should include your name (not your ID#) and section number printed in the top right hand corner. Homework should be neat and stapled in the top left hand corner -- **chapters should be kept separate** from each other. Please use a dark pencil (#2) or a black or blue pen.

**EXAMS** will be closed-book & multiple choice. Note: calculators that store non-numerical (text) input will **not** be allowed on quizzes and exams -- restrictions will be announced. The exams will cover material from the lectures, textbook, and handouts.

- **EXAM #1** 8:00-10:00 PM, Thursday, October 4, Room C20 PC
- **EXAM #2** 8:00-10:00 PM, Thursday, November 8, Room C20 PC

**CUMULATIVE FINAL EXAM** 2:15–4:15 PM, Monday, December 17, 2007 Room(s) to be announced

(The final exam is as scheduled by the university, during finals week. ISIS and the Registrar’s webpage have links to the final exam schedule: [http://www.registrar.uiowa.edu/exams/default.aspx](http://www.registrar.uiowa.edu/exams/default.aspx)

Any **changes** in the exam schedule will be announced in class and on the course webpage.

**MAKE-UPS** If you know that you will miss a quiz or exam, or if something unexpected comes up (emergency, illness, etc.) please let me (instructor) know as soon as possible, **prior** to the exam, and we will discuss your situation. Please be prepared to show documentation of your situation. Additional information concerning the policy on missed exams can be found at [http://www.clas.uiowa.edu/faculty/teaching/classroom_p&p/general_exam_p&p.shtml#3](http://www.clas.uiowa.edu/faculty/teaching/classroom_p&p/general_exam_p&p.shtml#3)

**CHEATING** in all forms is taken very seriously. It could result in the assignment of an "F" grade and disciplinary action by the college and/or university.

**GRADING** The course grade will be calculated using the following weights:

- homework = 10%
- quizzes = 10%
- exam #1 = 25%
- exam #2 = 25%
- final exam = 30%

The final course % is a **weighted** sum of HW, quiz, midterm, and final exam grades:

\[
\text{Course } \% = (\text{HW fraction})(10\%) + (\text{quiz frac})(10\%) + (E1 \text{ frac})(25\%) + (E2 \text{ frac})(25\%) + (\text{final frac})(30\%)
\]

As a rough guide: 90-100% = A- to A+, 80-90% = B- to B+, 67-80% = C- to C+, 55-67% = D- to D+

Appointments may be made to discuss your standing in the class. Note that both plus and minus grades will be used.

**HELP** is available from a variety of sources: Instructor and TA office hours, review sessions, Statistics Tutorial Lab (202 CC) [http://www.stat.uiowa.edu/courses/tutorial-lab.html](http://www.stat.uiowa.edu/courses/tutorial-lab.html)

For qualified students, tutors are available through New Dimensions in Learning, 310 CALH, 335-1288. In addition, some independent tutors are listed at [http://www.stat.uiowa.edu/courses/tutors.html](http://www.stat.uiowa.edu/courses/tutors.html)

**INFORMATION FOR STUDENTS WITH DISABILITIES** I would like to hear from anyone who has a disability which may require seating modifications or testing accommodations or accommodations of other class requirements, so that appropriate arrangements may be made. Please contact me before/after class or during my office hours.
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/

Prof. Tierney, DEO 335-0712, luke-tierney@uiowa.edu

IMPORTANT POLICIES OF 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. 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. 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. See 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 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 Schaeffer Hall and speak with the staff. The CLAS Academic Handbook is another useful source of information on CLAS academic policy: www.clas.uiowa.edu/students/academic_handbook/index.shtml

Student Classroom Behavior
The ability to learn is lessened when students engage in inappropriate classroom behavior, distracting others; such behaviors are a violation of the Code of Student Life. When disruptive activity occurs, a University instructor has the authority to determine classroom seating patterns and to request that a student exit the classroom, laboratory, or other area used for instruction immediately for the remainder of the period. One-day suspensions are reported to appropriate departmental, collegiate, and Student Services personnel (Office of the Vice President for Student Services and Dean of Students).
University Examination Policy

Final Examinations. An undergraduate student who has two final examinations scheduled for the same period or more than three examinations scheduled for the same day may file a request for a change of schedule before the published deadline at the Registrar’s Service Center, 17 Calvin Hall, 8-4:30 M-F, (384-4300).

Missed exam policy. University policy requires that students be permitted to make up examinations missed because of illness, mandatory religious obligations, certain University activities, or unavoidable circumstances. Excused absence forms are required and are available at the Registrar web site: www.registrar.uiowa.edu/forms/absence.pdf

Resources for Students

- Writing Center 110 English-Philosophy Building, 335-0188, www.uiowa.edu/~writingc
- Speaking Center 12 English-Philosophy Building, 335-0205, www.uiowa.edu/~rhetoric/centers/speaking
- Tutor Referral Service Campus Information Center, Iowa Memorial Union, 335-3055, www.imu.uiowa.edu/cic/tutor_referral_service