

22S:25/7P:25 **ELEMENTARY STATISTICS AND INFERENCE** **Spring 2009**

TIME/LOCATION **Evening Class (Sec SCA) Wednesday, 6:30-9:30 PM, 131 SH**

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. 2:30-3:20, 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

REQUIRED TEXTS Statistics by Freedman, Pisani, Purves; W.W. Norton & Co., **4th ed.**
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. Attendance will be taken. A missed class is equivalent to a missed week.
Absences usually lead to lower scores on quizzes and exams.

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. 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** which
can be found at <http://student-services.uiowa.edu/students/policies/2a.php>

QUIZZES (approx. 6) lasting about 15 minutes will be given during class. Quiz dates 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 assigned each week. 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. For some assignments,
students will work in groups. Assignments and due dates will be announced and posted. Some of the
homework will be graded. **Late homework** will be penalized.

For each 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 (or a combination of "show your work" and 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 Wednesday, February 25, (during class)
EXAM #2 Wednesday, April 8, (during class)
CUMULATIVE FINAL EXAM 7:00 – 9:00 PM, Wednesday, May 13, 2009 Room 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>

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

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 + quizzes = 20%, exam #1 = 25%, exam #2 = 25%, final exam = 30%

The final course % is a **weighted** sum of HW, quiz, midterm, and final exam grades:
Course % = (HW fraction)(HW%)+(quiz frac)(quiz%)+(E1 frac)(25%)+(E2 frac)(25%)+(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 office hours, review sessions, Statistics Tutorial Lab (202 CC) <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>

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/

Dept. of Statistics & Actuarial Science, 241 SH, <http://www.stat.uiowa.edu/>
Prof. Tierney, DEO 335-0712, luke-tierney@uiowa.edu

The College of Liberal Arts and Sciences - Policies and Procedures

Administrative Home

The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall or see the Academic Handbook.

www.clas.uiowa.edu/students/academic_handbook/index.shtml

Academic Fraud

Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is reported to the departmental DEO and to the Associate Dean for Academic Programs and Services who enforces the appropriate consequences. www.clas.uiowa.edu/students/academic_handbook/ix.shtm

Making a Suggestion or a Complaint

Students with a suggestion or complaint should first visit the instructor, then the course supervisor and the departmental DEO. 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 should register with Student Disability Services and meet privately with the course instructor to make particular arrangements. For more information, visit this site:

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 University policy.

Reacting Safely to Severe Weather

In severe weather, the class members should seek shelter in the innermost part of the building, if possible at the lowest level, staying clear of windows and free-standing expanses. The class will continue if possible when the event is over. (**Operations Manual** 16.14. i.)

Important University of Iowa Deadlines for Off-Cycle Courses

(Note: Use only for off-cycle courses. To find the deadlines for a particular course, visit this Registrar site and type in the course number and title:

www.registrar.uiowa.edu/more/coursedeadlines.aspx)

Since this course begins or ends at a time different from other courses, please be aware of these deadlines:

Last day to add:

Last day to drop:

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).

<http://www.registrar.uiowa.edu/calendars/academic.aspx>

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:

<http://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