COURSE INFORMATION FOR 22S:153

Mathematical Statistics I
Fall, 2008

INSTRUCTOR: Richard Dykstra
217 Schaeffer Hall
Phone: 335-2847 (Home Phone 354-1812)
e-mail: dykstra@stat.uiowa.edu or Richard-Dykstra@uiowa.edu

OFFICE HOURS: 2:00 – 3:00; Mon., Weds., Fri. (or by appointment)

DEPARTMENT INFORMATION: Department of Statistics and Actuarial Science
241 Schaeffer Hall
Phone: 335-0706

Phone: 335-0712;
Luke-Tierney@uiowa.edu

TEXT: The text for this course will be "Introduction to Mathematical Statistics" (sixth edition) by Hogg, McKean, and Craig. Please see the instructor for a list of other books if you desire supplementary reading materials.

EXAMS: There will be two midterm exams given during the semester, and a two hour final exam given during finals week. There will also be some short quizzes given.

HOMEWORK: Written assignments are an essential element of the course, and will be expected of the students. Assignments will generally consist of 6 - 12 problems collected weekly. Assignments must be turned in at the beginning of class on the day they are due. Late homework will be accepted only if prior arrangements are made.

ATTENDANCE: Attendance at lectures and participation in class discussions is expected and required. The instructor should be notified if you are aware of an upcoming absence.

COURSE OBJECTIVES: The goal of this course is to provide students with a strong
foundation in probability, statistical terminology and concepts. This course should provide students with an understanding of statistical techniques and reasoning and provide a solid background for more advanced courses in statistics.

GRADING PROCEDURES: The midterm exams will each be worth 100 points, and the final exam will be worth 140 points. Total possible homework and quiz points will be approximately 100. Plus and minus grades will be given.

COURSE DESCRIPTION: We will cover most of the material in the first four chapters of the Hogg, McKean, and Craig book. This will include such topics as probability, conditional probability, random variables, distribution and density functions, joint and conditional distributions, families of discrete and continuous distributions, convergence concepts, and the Central Limit Theorem.

ADDITIONAL HELP: Students are encouraged to see the instructor outside of class. The Statistics and Actuarial Science Department also maintains a list of tutors (see Margie in Room 241). A list of independent tutors can be found at [http://www.stat.uiowa.edu/courses/tutors.html](http://www.stat.uiowa.edu/courses/tutors.html)

DISABILITIES: I would like to hear from anyone who has a disability which may require some modification of the seating, testing, or other class requirements so that appropriate arrangements can be made. Please see me as soon as possible if this is pertinent.

FINAL EXAM DATE: 9:45 AM, Thursday, Dec. 18.

This course is given by the College of Liberal Arts and Sciences. This means that class policies on matters such as requirements, grading, and sanctions for academic dishonesty are covered by the College of Liberal Arts and Sciences. Students wishing to add or drop this course after the official deadline must receive the approval of the Dean of the College of Liberal Arts and Sciences. Details of the University policy of cross enrollments may be found at: [http://www.uiowa.edu/~provost/deos/crossenroll.doc](http://www.uiowa.edu/~provost/deos/crossenroll.doc)

University policies regarding Student Rights and Responsibilities can be found at [http://www.clas.uiowa.edu/students/academic_handbook/](http://www.clas.uiowa.edu/students/academic_handbook/)
IMPORTANT POLICIES OF THE COLLEGE OF LIBERAL ARTS AND SCIENCES

The College of Liberal Arts and Sciences Policy and Procedures

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. 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