COURSE INFORMATION FOR 22S:190

MATHEMATICAL METHODS FOR STATISTICS

Spring 2007

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

OFFICE HOURS:
Monday, 2:30-3:30; Wednesday, Friday 3:30-4:30 (or by appointment)

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

DEPARTMENT EXECUTIVE OFFICER:
Luke Tierney, 241 Schaeffer Hall
Luke-Tierney@uiowa.edu
Phone: 335-0712

TEXT:
The text for this course will be "Principles of Mathematical Analysis", Third Edition, by Walter Rudin. The publisher is McGraw-Hill. Additional references and reading material will be suggested during the semester.

EXAMS:
There will be two one-hour midterm exams. These will be given approximately 6 and 12 weeks into the semester. There will also be a two-hour final exam given during finals week.

HOMEWORK:
Written assignments are an essential element of the course, and will be expected of the students. Assignments will generally consist of 5-10 problems collected each Friday. 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 discussions are expected.

COURSE OBJECTIVES:
The goal of this course is to provide students with a firm foundation and appreciation of real analysis and advanced calculus skills and fundamentals that have proven useful in mathematical statistics.

TOPICS CONSIDERED IN THIS COURSE:
I plan to cover most of the material in Chapters 2 through 7 in Rudin's book, and other material if time permits. I will try and maintain an informal atmosphere and encourage class discussion and participation. Questions are always welcome and encouraged.

GRADING POLICY:
The midterm exams will each count approximately 25% of the course grade. The final exam will count approximately 30% of the course grade, and homework and quizzes will make up the other 20%. I don't have preconceived cutoff points for the various possible grades. Those students who score the most points will get the highest grades. 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/

ADDITIONAL HELP:
Students are encouraged to see the instructor outside of class. The Department also maintains a list of possible tutors (see Tammy in Room 241).

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:
12:00 P.M., Wednesday, May 9, 2007.