COURSE SYLLABUS

STAT:4101 (22S:154)
Section 002
Mathematical Statistics II
Meetings 8:30– 9:20 a.m. MWF
22 SH
Spring Semester 2014
O. Stramer

COURSE DESCRIPTION

This course is a continuation of the first course in mathematical statistics (22s:153), intended for upper-level undergraduate students in the mathematical sciences as well as for graduate students in all disciplines. The goal is to provide a solid foundation in probability and statistical inference. Topics include convergence in distribution and convergence in probability, point estimation, confidence intervals, and testing of statistical hypotheses.

PREREQUISITES

The course prerequisite is STAT:4100 (22S:153).

OFFICE HOURS

Scheduled office hours for the course are from 9:30 am to 11:00 am, on Wednesdays and 11:30 am to 1:00 pm, on Fridays in 370 SH. Appointments at other times may be made via email, osnat-stramer@uiowa.edu.

DEPARTMENT INFORMATION

Prof. Luke Tierney, Chairman.
Department of Statistics & Actuarial Science, 241 SH
Phone: 335-0712,
Email: luke-tierney@uiowa.edu

EARNING CREDIT

Your semester grade will consist of the following components:
Homework 10%
Quizzes 15%
Midterm Exam 1 20% February 27 6:30-8:30 in 22 SH
Midterm Exam 2 25% April 3 6:30-8:30 in 22 SH
Final Exam 30% TBD by the University.

Problem sets will generally be made available on ICON on Monday, answers will be due on Friday, and will be discussed in class the following Monday. Problem sets will not be
assigned the weeks that midterm exams are scheduled or the last week of classes.

**Exams:** There will be two midterm exams and one cumulative final exam. The examination will be closed book and closed notes. Calculator may be used for exams, and any necessary statistical tables will be provided. One 8.5”x11” formula sheets (both sides) may be used for each midterm and two 8.5”x11” formula sheets (both sides) may be used for the final. If an exam is missed, a make-up exam will be permitted only if the circumstances of missing the exam satisfy university policies.

**Quizzes:** There will be 4-5 closed-book 15-minutes quizzes at the end of class period. The quizzes will be closed book and closed notes. Calculator may be used and any necessary statistical tables will be provided. The dates of the quizzes will be announced only 2 days in advance (in class).

**COMMUNICATION**

In the event that I need to communicate with you by email, I will assume that you read your firstname-lastname@uiowa.edu email at least every 48 hours.

**READINGS**

The course will closely follow the first four chapters of the text *Introduction to Mathematical Statistics* by Robert V. Hogg, Joseph W. McKean and Allen T. Craig (Seventh Edition, Prentice Hall, 2). All students taking the course for credit are expected to purchase this text, which is available in the bookstore. The course topics are from Ch. 4 to 8.

**COLLEGE OF LIBERAL ARTS AND SCIENCES POLICIES AND PROCEDURES**

This course is governed by the policies and procedures of the College of Liberal Arts. These policies address

* the administrative home of the course;
* electronic communications;
* electronic communications;
* academic fraud;
* students with disabilities;
* procedures for student complaints;
* sexual harassment policy;
* weather emergencies.

These policies can be found at

http://clas.uiowa.edu/faculty/teaching-policies-resources