COURSE SYLLABUS

STAT 4101 (22S: 154)
Mathematical Statistics II
Meetings 10:30 a.m. – 11:20 a.m.
Mondays, Wednesdays, Fridays
15 SH Spring Semester 2015
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 STA4100 (22S:153).

Dept. Info: Prof. Joseph Lang, Chairman.
Department of Statistics & Actuarial Science, 241 SH
Phone: 335-0712,
Email: joseph-lang@stat.uiowa.edu

OFFICE HOURS

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

EARNING CREDIT

Your semester grade will consist of the following components:
Homework 10%
Quizzes 30%
Midterm Exam 25% Thursday March 5 6:30-8:30 pm in 40 SH.
Final Exam 35% TBD by the University.

I reserve the right to give bonus points at any time. The bonus points may be applied to any part of your grade.
**Problem sets** will generally be made available on ICON on Tuesday, answers will be due on Monday.

**Exams:** There will be one 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 the 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 6-7 closed-book 25-minutes quizzes at the end of class period. The quizzes will be closed book and closed notes, except that you may use a “crib sheet"-one page (8.5 x 11) of notes written on one side only. 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 chapters 4-8 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.

**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;
* academic fraud;
* students with disabilities;
* procedures for student complaints;
* sexual harassment policy;
* weather emergencies.

These policies can be found at [http://www.clas.uiowa.edu/faculty/teaching/new_policytemplate.shtml](http://www.clas.uiowa.edu/faculty/teaching/new_policytemplate.shtml).