Meeting Time 5:30P - 6:20P MWF 31 SH

Instructor Saeid Amiri, 233 Schaeffer Hall, 335-2847, saeid-amiri@uiowa.edu
Office Hours MWF 13:40 – 15:00 or by appointment

Course Website.
I will post announcements, homework problems, lecture notes, and other course information in ICON
http://icon.uiowa.edu.
https://sites.google.com/site/mathematicalii2015/

Course Description and Objectives.
This course is a continuation of 22S:153. It is intended for upper-level undergraduate students in the
mathematical sciences as well as for graduate students in all disciplines. The goal is to give students a
solid foundation in the theory and methods of statistical inference. Main topics include Transformations,
order statistics, point estimation, sufficient statistics, Rao-Blackwell Theorem, delta method, confidence
intervals, likelihood ratio tests, applications.

Prerequisites. STA4100 (22S:153).

Textbook. Introduction to Mathematical Statistics (6th or 7th ed.) Hogg, McKean and Craig, (Prentice
Hall). We will start from chapter 4 and cover through chapter 8.

Grading. Your semester grade will consist of the following components:
Homework 15%
Midterm Exam 1 22% (tentative)
Midterm Exam 2 22% (tentative)
Final Exam 41% TBD by the University.

Total 100% As a rough guide, A, A-= 90%–100%, B+, B, B-= 80%–90%, C+, C, C-= 70%–80%, D+, D, D-=
60% – 70%.

Computer.
I will add R codes for the calculations in website, you do no need any programming skills.

Exams.
All exams will be closed book. You do not need computer or calculator for exam, if you want, just Single-
purpose calculators (no smart phones, etc.) can be used on exams.

Attendance is required.

Dept. of Statistics and Actuarial Science 241 SH, http://www.stat.uiowa.edu Prof. Lang, DEO, 335-
0712, joseph-lang@uiowa.edu

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 CLAS Student Academic Handbook.

Electronic Communication. University policy specifies that students are responsible for all official
correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students
should use this account for correspondences. (Operations Manual, III.15.2. Scroll down to k.11.)
**Accommodations for Disabilities.** A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. See www.uiowa.edu/~sds/ for more information.

**Academic Fraud.** Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is a serious matter and is reported to the departmental DEO and to the Associate Dean for Undergraduate Programs and Curriculum. Instructors and DEOs decide on appropriate consequences at the departmental level while the Associate Dean enforces additional consequences at the collegiate level. See the CLAS Academic Fraud section of the Student Academic Handbook.

**CLAS Final Examination Policies.** Final exams may be offered only during finals week. No exams of any kind are allowed during the last week of classes. Students should not ask their instructor to reschedule a final exam since the College does not permit rescheduling of a final exam once the semester has begun. Questions should be addressed to the Associate Dean for Undergraduate Programs and Curriculum.

**Making a Suggestion or a Complaint.** Students with a suggestion or complaint should first visit the instructor, then the course supervisor, and then the departmental DEO. Complaints must be made within six months of the incident. See the CLAS Student Academic Handbook.

**Understanding Sexual Harassment.** Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

**Reacting Safely to Severe Weather.** In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Public Safety web site.