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

Course Description and Objectives.
This course is a continuation of 22S:130. This course gives a mathematical introduction to the foundations of statistical inference. We will discuss methods for using observed data from a sample to estimate parameters, test hypotheses about the data-generating distribution, and estimate/predict unobserved data. The methods developed will be applied in a variety of single sample, multiple sample, and regression settings. We will cover most of the topics from Chapters 5 through 8 of Hogg and Tanis. Topics include sampling distribution theory, maximum likelihood estimation, confidence intervals, linear regression, hypothesis tests, and non-parametric methods. Time permitting, we will cover select topics from Chapters 9 and 10.

Prerequisites. 22S:130 (Introduction to Mathematical Statistics I) or equivalent.

Textbooks.
Probability and Statistical Inference, 9th edition, Hogg, Tanis and Zimmerman

Grading. Your semester grade will consist of the following components:
Homework assignment 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= 80%–90%, C+,C= 70%–80%, D+,D= 60% – 70%.

Exams.
The final will be comprehensive. You may bring four one-sided pieces of paper to the final for handwritten notes.

Attendance.
Attendance is very vital to your success in this class. Regular attendance is expected and roll will be taken on random dates. Students who are absent from class without acceptable excuse should not seek help regarding missed lectures during office hours.
In class, please refrain from talking on cell phones or texting, using laptops/tablets etc. (not for note-taking purpose), and prolonged conversation with a fellow student.

BE ON TIME!
If you must leave class early for any reason, please let me know this before class and choose a seat that will allow you to exit the room with minimum disruption.
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.

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