Basic Information
Lecture: 9:30 – 10:50 (Lecture A) and 11:00 – 12:20 (Lecture B) T/Th @ ICS 174
Discussion: See course webpage
Instructor: Weining Shen (weinings@uci.edu)
Office hour: 2:30-3:30pm (M), 1-2pm (Thurs), 2-3pm (Fri) @ Bren Hall 2206
TA #1: Tong Shen (tshen4@uci.edu)
Office hour: 12-2pm on Mon and 12-1pm on Wed @ Bren Hall 2013 (Stats Tutor room)
TA #2: Isaac Goldstein (igoldst1@uci.edu)
Office hour: 2-3:30pm on Tu and 2:30-4pm on Wed @ Bren Hall 2221
Reader: Xuan Liu (xuanl29@uci.edu) and Jessica Cascio (jcascio@uci.edu)

Course Webpage: https://canvas.eee.uci.edu/courses/21901
Course information, R links and references, material covered in class, additional handouts, homework assignments, data sets, and study material for the exams will be posted on the course webpage.

Course Description and Objectives
The three-quarter sequence Stats 120A-B-C (Math 131A-B-C) covers basic principles of probability and statistical inference from a mathematically rigorous perspective. Stats 120B focuses on statistical inference. We will cover limiting theorems, point estimation, interval estimation, sampling distributions, hypothesis testing, and Bayesian approaches to inference.

Prerequisite
Stat 120A / Math 131A or equivalent.

Recommended Textbook

Chapters 1-5 of the textbook is material primarily covered in Stats 120A. We will cover most of Chapters 6-9, including supplementary material. Chapters 10 and/or 12 will be covered if time allows

Additional Reference

Software/Computing
- We will be using the statistical software R. R can be downloaded for free from http://www.r-project.org. Further resources for R are posted on the course website.
- Download and install R before the discussion section. Bring your laptop (with R installed) to each discussion section. If you do not own a laptop, share with another student in class.
Discussions
Discussion sections will be used to introduce the R software and code necessary to complete homework assignments, to review course material, or to do group activities. Attendance is not taken during discussion, but attending discussion will enhance your learning in this course, and is highly recommended.

Grading Policy
The grade is based upon homework (10%), a midterm (45%) and a final exam (45%).

Homework Policy
● There will be about five homework assignments. The lowest one will be dropped.
● Homework is due at 5pm on the due date. Late homework will NOT be accepted.
● Homework can be submitted during class and to the homework dropbox (labeled Stats 120B) located on the wall across from DBH 2202.
● Homework is challenging. You are encouraged to discuss with your classmates verbally. However, you should NOT look at or copy others’ solution. Identified cheating incidents will be reported and will result in zero grades.

Exams
● The exams are closed book and closed notes. One double-sided 8.5’’x11’’ sheets of notes is allowed for midterm, and two double-sided sheets of notes for the final exam.
● A hand calculator is the only electronic device that can be used during the exams. You may not use any other electronic devices such as cell phone / ipad / tablet computer / laptop for a calculator.
● Tampering with an examination then returning it for more credit will be reported as academic dishonesty. Note, your exam papers will be photocopied before they are handed back to you.
● The final is comprehensive.

Important Dates
● Midterm exam: Feb 13, in class.
● Final exam: Lecture A – March 19 (8-10am); Lecture B – March 17 (10:30-12:30pm)

Academic Honesty
Students are responsible for adhering to the UCI Academic Honesty standards. I encourage students to discuss problems in broad, conceptual terms and to work and study together on homework. However, attempt your homework before discussions it with others, and any work turned in must be your own. Copied homework will result in zero credit for the assignment. This also includes copying the old homework solutions. Academic misconduct on an exam will result in zero credit for the exam and will be
reported to the appropriate Dean, no exceptions. For further information, see http://honesty.uci.edu/.

Disability Service

University of California, Irvine is committed to providing reasonable accommodations for all persons with permanent or temporary disabilities. This syllabus is available in alternate formats upon request. If you have a disability that impacts your participation in this class, please contact the Disability Services Center (DSC) as soon as possible. Students approved for accommodations will notify the instructor by sending out a Faculty Notification Letter from the DSC website. Disability Services Center - Building 313 in Engineering Gateway - www.dsc.uci.edu - (949) 824-7494