

STAT: 4101 Mathematical Statistics II, Fall 2016

Place and time: 31 SH, MWF 5:30 - 6:20pm.

Instructor: Jian Huang

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Office hours (tentative): MW 4:30-5:20pm, or by appointment.

Departmental executive officer: Professor Joseph Lang

241 SH, Phone: 335-0712

Prerequisite: STAT: 4100 (22S:153) and Multivariate Calculus.

Required Textbook: Introduction to Mathematical Statistical, 6th or 7th edition, by Hogg, McKean and Craig, Prentice Hall. The topics I intend to cover are from Chapters 4 to 8, and if time permits, Chapter 11 of the book.

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

Course Description and Objectives. This course is a continuation of STAT:4100 (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 convergence in distribution and convergence in probability, point estimation, confidence intervals, and testing of statistical hypotheses.

Homework: Homework will be assigned on Fridays and due the following Friday at the end of the class. No late homework will be accepted. You are welcome to discuss homework problems with me during my office hours or by appointment. You are also encouraged to discuss homework problems with other students. However, what you hand in must ultimately be your own work. Please keep in mind that doing homework is very important for understanding the materials in this class.

Quizzes and Exams: We will have about 10 short quizzes (10 to 15 minutes), two midterm exams (Sept 23 and Oct 29) and a final exam. The final exam will be comprehensive.

Grading: Homework: 20%. Quizzes: 10%. Midterms: 40%. Final: 30%. Grade will be determined by the weighted total score. Scale runs like the following (and I may adjust it a little): A (85-100), B (70-85), C (50-70), D (35-50). Plus/minus grading will be used.

Additional UI and CLAS Policy and Procedures

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 [www.clas.uiowa.edu/students/academic_handbook/index.shtml].

Electronic Communication University policy specifies that students are responsible for all official correspondences sent to their standard University of Iowa e-mail address (@uiowa.edu). Students should check this account frequently. (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 All CLAS students have, in essence, agreed to the College's Code of Academic Honesty: "I pledge to do my own academic work and to excel to the best of my abilities, upholding the IOWA Challenge. I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty." Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled (CLAS Academic Policies 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 at www.uiowa.edu/~eod/policies/sexual-harassment-guide/index.html 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 website <http://www.uiowa.edu/~pubsfty/intlinks.htm>.

Student Classroom Behavior The ability to learn is lessened when students engage in inappropriate classroom behavior, distracting others; such behaviors are a violation of the Code of Student Life. When disruptive activity occurs, a University instructor has the authority to determine classroom seating patterns and to request that a student exit the classroom, laboratory, or other area used for instruction immediately for the remainder of the period. One-day suspensions are reported to appropriate departmental, collegiate, and Student Services personnel (Office of the Vice President for Student Services and Dean of Students).