

**STAT:4100 (22S:153)  
Section 0002**

**Mathematical Statistics  
FALL 2017**

**Meeting Time** MWF 1:30 p.m.– 2:20 p.m.  
112 MH

**Instructor** Aixin Tan, 259 SH, 335-0821, [aixin-tan@uiowa.edu](mailto:aixin-tan@uiowa.edu)  
**Office Hours** MWF 9:30 – 10:20am or by appointment

**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 is a course in mathematical statistics 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 the theory of random variables and probability distributions.

**Prerequisites.** The course prerequisites are the mathematics courses MATH:2700(22M:027) and MATH:2850(22M:028), or equivalents: undergraduate calculus including linear algebra. Undergraduate students often complete STAT:3120(22S:120) or STAT:3100(22S:130) prior to taking STA4100(22S:153).

**Textbook.** Introduction to Mathematical Statistics (7th ed.) Hogg, McKean and Craig, (Prentice Hall). We will cover chapters 1-3 and part of chapter 4.

**Grading.** Your semester grade will consist of the following components:

|                |      |                             |
|----------------|------|-----------------------------|
| Homework       | 13%  |                             |
| Quizzes        | 6%   |                             |
| Midterm Exam 1 | 23%  | Fri, Sep. 29 (tentative)    |
| Midterm Exam 2 | 23%  | week of Oct. 29 (tentative) |
| Final Exam     | 35%  | 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%.

**Quizzes and Exams.** Quizzes will be frequent and brief. They will emphasize examples and key concepts repeatedly mentioned in class as well as homework problems. All exams will be closed book. The final exam will be comprehensive.

**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](mailto: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 Academic Policies 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 correspondence (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 with the course instructor privately in the instructor's office to make particular arrangements. See <https://sds.studentlife.uiowa.edu/> for more information.

**Nondiscrimination in the Classroom** The University of Iowa is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their instructors and classmates. The University of Iowa prohibits discrimination and harassment against individuals on the basis of race, class, gender, sexual orientation, national origin, and other identity categories set forth in the University's Human Rights policy. For more information, contact the Office of Equal Opportunity and Diversity, [diversity@uiowa.edu](mailto:diversity@uiowa.edu), or visit [diversity.uiowa.edu](http://diversity.uiowa.edu).

**Academic Honesty** All students taking CLAS courses 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** The date and time of every final examination is announced by the Registrar generally by the fifth week of classes. No exams of any kind are allowed during the last week of classes. All students should plan on being at the UI through the final examination period. It is the student's responsibility to know the date, time, and place of the final exam.

**Making a Suggestion or a Complaint** Students with a suggestion or complaint should first visit with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident (CLAS Academic Policies 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 Office of the Sexual Misconduct Response Coordinator 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.