

# Statistics 22S:153 Section 002

# Mathematical Statistics Fall 2009

**Meeting Time** MWF 12:30–1:20 p.m.  
66 SH (Schaeffer Hall)

**Instructor** Aixin Tan, 259 SH, 335-0821, [aixin-tan@uiowa.edu](mailto:aixin-tan@uiowa.edu)  
**Office Hours** MWF 1:30-2:20 pm or by appointment

**Course Website.** I will post announcements, homework problems, lecture notes, and other course information on 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, probability distributions, and convergence in probability and distribution.

**Prerequisites.** The course prerequisites are the mathematics courses 22M:027 and 22M:028, or equivalents: undergraduate calculus including linear algebra. Undergraduate students often complete 22S:120 or 22S:130 prior to taking 22S:153.

**Textbook.** Introduction to Mathematical Statistics, 6th ed., Hogg, McKean and Craig, (Prentice Hall). We will cover chapters 1-4.

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

Homework	10%	
Quizzes	20%	
Two Midterm Exams	40%	TBD
Final Exam	30%	Dec. 17, 12:00 p.m.
Total	100%	

As a **rough** guide, **A**= 90% – 100%, **B**= 80% – 90%, **C**= 70% – 80%, **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.

**Makeup policy.** In case of illness or emergency, contact the instructor prior to the exam or quiz. Valid and detailed documentation is a prerequisite for scheduling a makeup exam. Each case will be reviewed individually. Being out of town is not a valid reason to request a makeup.

**Attendance is required.**

**Dept. of Statistics and Actuarial Science** 241 SH, <http://www.stat.uiowa.edu>  
Prof. Tierney, DEO, 335-0712, [luke-tierney@uiowa.edu](mailto:luke-tierney@uiowa.edu)

## **College of Liberal Arts and Sciences: Policies and Procedures**

**Administrative Home of the Course** 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 in 120 Schaeffer Hall or see the CLAS Student Academic Handbook:

[www.clas.uiowa.edu/students/academic\\_handbook/index.shtml](http://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.)

**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 Student Academic Handbook.

**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.

**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. [www.uiowa.edu/~sds/](http://www.uiowa.edu/~sds/)

**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](http://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. (Operations Manual, IV.16.14. Scroll down to e. h. and i.)