

The University of Iowa  
College of Liberal Arts and Sciences  
**Department of Statistics and Actuarial Sceience**

## 22S:153 Mathematical Statistics I, Fall 2007

**Place and time:** 30 SH, MWF 12:30 - 1:20pm.

**Instructor:** Jian Huang  
Department of Statistics and Actuarial Science

University of Iowa

Office: 221 SH Phone: 335-0823

Office hours (tentative): Monday 2:30-4:00pm, Friday 10:00-11:30am, or by appointment.

Email: jian-huang@uiowa.edu

Departmental executive officer: Luke Tierney  
241 SH, Phone: 335-0712

A list of tutors is maintained in 241 SH.

**Prerequisite:** 22M:027 and 22M:028 or equivalents.

**Required Textbook:** Introduction to Mathematical Statistical, 6th edition, by Hogg, McKean and Craig, 2005, Prentice Hall.

**About the course:** This is a course on basic mathematical statistics. The topics I intend to cover are from Chapters 1 to 5 of Hogg, McKean and Craig (2005), which include:

1. Probabilty and Distributions
2. Multivariate Distributions
3. Some Important Distributions
4. Modes of Convergence
5. Basic Statistical Inferences (If time permits)

I think it is a good idea to spend at least 2-3 hours outside the class for each class period. I want to help you as much as possible, and I hope we are going to have a great semester.

**Homework:** Homework will be assigned on Fridays and due the following Friday at the end of the class. Assignments will be posted on ICON for 22S:153:002. (<https://icon.uiowa.edu>). 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 6 short quizzes (10 to 15 minutes), two midterm exams and a final exam.

**Grading:** Homework: 15%. Quizzes: 15%. Midterms: 35%. Final: 35%. Grade will be determined by the weighted total score. Scale runs like the following (and I may adjust it a little): A (90-100), B (75-89), C (55-74), D (40-54). Plus/minus grading will be used.

## Important Dates

08/31: Quiz 1  
09/14: Quiz 2  
09/28: Quiz 3  
10/05: Midterm 1  
10/19: Quiz 4  
11/02: Quiz 5  
11/16: Midterm 2  
11/30: Quiz 6  
12/20: Final (December 20, 12:00-2:00pm, Room 30 SH)

## The College of Liberal Arts and Sciences Policy and Procedures

### Academic Fraud

Plagiarism and any other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences. [www.clas.uiowa.edu/students/academic\\_handbook/ix.shtml](http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml)

### Making a Suggestion or a Complaint

Students have the right to make suggestions or complaints and should first visit with the instructor, then with the course supervisor if appropriate, and next with the departmental DEO. All complaints must be made within six months of the incident. [www.clas.uiowa.edu/students/academic\\_handbook/ix.shtml#5](http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5)

### Accommodations for Disabilities

A student seeking academic accommodations first must register with Student Disability Services and then meet with a SDS counselor who determines eligibility for services. A student approved for accommodations should meet privately with the course instructor to arrange particular accommodations. [www.uiowa.edu/~sds/](http://www.uiowa.edu/~sds/)

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### Understanding Sexual Harassment

Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. Visit [www.sexualharassment.uiowa.edu/](http://www.sexualharassment.uiowa.edu/) for definitions, assistance, and the full policy.

### Administrative Home of the Course

The administrative home of this course is the College of Liberal Arts and Sciences, which governs academic matters relating to the course such as the add / drop deadlines, the second-grade-only option, issues concerning academic fraud or academic probation, and how credits are applied for various CLAS requirements. Please keep in mind that different colleges might have different policies. If you have questions about these or other CLAS policies, visit your academic advisor or 120 Schaeffer Hall and speak with the staff. The CLAS Academic Handbook is another useful source of information on CLAS academic policy: [www.clas.uiowa.edu/students/academic\\_handbook/index.shtml](http://www.clas.uiowa.edu/students/academic_handbook/index.shtml)