

22S:154 Mathematical Statistics II, Spring 2008

Time and Location: MWF 9:30 - 10:20am, 15 SH.

Instructor: Jian Huang
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Office hours: Mondays 10:30-12:00am, Wednesdays 10:30-12:00am, or by appointment

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

A list of tutors is maintained in 241 SH.

Prerequisite: 22S:153 and Multivariate Calculus.

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 4 to 11 from the textbook by Hogg, Mckean and Craig, which include:

1. Review of modes of convergence, the central limit theorem and δ -method.
2. Basic statistical inference
3. Maximum likelihood methods
4. Sufficiency
5. Optimal tests of hypothesis
6. Selected topics on normal models, nonparametric methods and Bayesian statistics (if time permits)

I suggest that you spend at least 2-3 hours outside the class for each class period, to read the textbook, work out the materials and examples I covered in the lecture as well as the examples in the book, and work on the homework problems.

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 5 quizzes, 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

02/01: Quiz 1

02/15: Quiz 2

02/29: Midterm 1

03/14: Quiz 3

03/28: Quiz 4

04/11: Midterm 2

04/25: Quiz 5

05/13: Final exam: May 13 (Tuesday) 2:15-4:15pm in room 15 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

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

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/

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/ 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