STAT:4100 (22S:153) Mathematical Statistics I

Instructor: Joyee Ghosh

Contact Information:

- Office: 372 SH
- Phone: (319)-335-0816
- Email: joyee-ghosh@uiowa.edu

Class Time & Location: 11:30 AM–12:20 PM MWF 113 MLH

Instructor Office Hours:
Monday: 1:00–1:50 PM and 2:00–2:50 PM, Wednesday: 1:00–2:00 PM, or by appointment.

Department Information: Department of Statistics and Actuarial Science, 241 Schaeffer Hall, Phone: 335-2082

Departmental Executive Officer: Luke Tierney, 241 SH, Phone: 335-0712.

Course Prerequisite: 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.


Course Website: I will post announcements, homework problems, lecture notes, and other course information on ICON.

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.

Grading: Your semester grade will consist of the following components:
A plus-minus grading system will be used. As a rough guide: A,A-: 88% – 100%, B+,B,B-: 77% – 88%, C+,C,C-: 61% – 77%, D: 50% – 61%, F:<50%.

- **Homework:** Homework will be usually assigned on Wednesdays and due on the following Wednesday at the beginning of the class. Due to time constraints, the grader may grade only some of the assigned questions, but you are responsible for understanding all questions. Unless prior arrangements are made well in advance, for reasons judged to be acceptable by me, late homework will receive zero credit as solutions will be posted soon after the homework is due.

- **Exams:** There will be two 50-minutes in-class midterms and a two-hour comprehensive final exam. Please bring your calculators for the exams, and any necessary statistical tables will be provided. All exams are closed book and closed notes, but you can bring one 8.5”x11” page of handwritten notes (both sides) for each midterm exam and two 8.5”x11” pages of handwritten notes (both sides) for the final exam. If an exam is missed, a make-up exam will be permitted only if the circumstances of missing the exam satisfy university policies (proper documentation will be required in such a case).

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<tr>
<th>Exam</th>
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<tr>
<td>Midterm One</td>
<td>11:30 AM, Friday, February 24</td>
<td>113 MLH</td>
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<td>Midterm Two</td>
<td>11:30 AM, Friday, April 6</td>
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<td>Final</td>
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- **Quizzes:**
  There will be five closed book and closed notes 15-minute quizzes towards the end of class period. Please bring your calculators for quizzes, and any necessary statistical tables will be provided. Formula sheets are not allowed for quizzes. The policy on make-ups for quizzes is identical to the policy for exams.

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**Attendance:** Regular attendance is required.
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

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/

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. (Operations Manual, IV.16.14. Scroll down to e. h. and i.)