Instructor: Ruitao Liu

Contact Information:

- **Office:** 368 SH
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**Time & Location:** 1:30P - 2:20P MWF 61 SH

**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:** 22S:153 (Mathematical Statistics I) or equivalent.


**Office Hours:** Monday and Wednesday: 2:30-3:30 pm, Thursday: 11:00-12:00 am or by appointment.

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

**Course Description and Objectives**
This course is a continuation of 22S:153. It is intended for upper-level undergraduate students in the mathematical sciences as well as for graduate students in all disciplines. The goal is to give students a solid foundation in the theory and methods of statistical inference. Topics include convergence in distribution and convergence in probability, as well as point estimation, confidence intervals, and testing of statistical hypotheses.
Grading
Your semester grade will consist of the following components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Two Midterm Exams</td>
<td>40%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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A plus-minus grading system will be used. As a rough guide: >97%, A+; 88-97%, A; 85-88%, A-; 82-85%, B+; 77-82%, B; 74-77%, B-; 71-74%, C+; 62-71%, C; 58-62%, C-; 50-58%, D; <50%, F.

- **Homework** Homework will be assigned on Fridays and due on the following Friday at the beginning of the class. Because the grader will not have enough time to grade each problem, a subset of the assigned problems will be graded. Late homework will not be accepted under any circumstances.

- **Exams** There will be two 50-minute in-class midterms and one two-hour final exam. Calculators may be used for exams, and any necessary statistical tables will be provided. Two 8.5”x11” formula sheets (both sides) may be used for each exam. If an exam is missed, a make-up exam will be permitted only if the circumstances of missing the exam satisfy university policies.

  1. **Midterm One:** 1:30 pm, Friday, October 2
  2. **Midterm Two:** 1:30 pm, Friday, November 6
  3. **Final:** 9:45 am, Tuesday, December 15

- **Quizzes** There will be five close-book 15-minute quizzes at the end of class period. The quizzes will be based entirely on the assigned homework. Calculators may be used for Quizzes, and any necessary statistical tables will be provided.

  1. **Quiz One:** Friday, September 11
  2. **Quiz Two:** Friday, September 25
  3. **Quiz Three:** Friday, October 16
  4. **Quiz Four:** Friday, November 20
  5. **Quiz Five:** Friday, December 4

**Attendance**
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.)