

STAT:5100 Statistical Inference I
Fall, 2018

1. Instructor: Kung-Sik Chan SH 263 335-2849 kung-sik-chan@uiowa.edu
office hours: MWF noon-1pm, or by appointment.
2. Department: Statistics and Actuarial Science
DEO contact information (Joseph Lang, 241 SH, 335-0712,
joseph-lang@uiowa.edu)
3. Time and location of class: 10:30am - 11:20am MWF 31 SH
4. Textbooks:
“Statistical Inference” by G. Casella and R.L. Berger
We will cover chapters 1 to 5 of the textbook “Statistical Inference.” We aim to give a relatively rigorous treatment on several probabilistic topics that provide the foundation of statistical inference. Topics include review of probability, distribution theory (multiple random variables, moment-generating functions, transformations, conditional distributions), sampling distributions, order statistics, convergence concepts, generating random samples.
5. Prerequisite: MATH:2850 and STAT:3101
6. Course requirements:

| | date | percent |
|------------|--------------------------------------|---------|
| Homework | | 15% |
| Quizzes | 8/29, 9/12, 10/5, 10/17, 11/9, 11/28 | 24% |
| Exam 1 | 9/24 (Monday) | 18% |
| Exam 2 | 10/29 (Monday) | 18% |
| Final Exam | | 25% |

Several homework assignments will be given. Discussion with fellow students on the exercises of the homework is allowed, but each student must write their own solutions. Exams and quizzes are closed book. No crib sheet is allowed.

7. A weekly help session will be held on 113 MLH, from 4:30 to 5:20 pm on Tuesdays. During the help sessions, Mr. Jin Meng jin-meng@uiowa.edu will answer questions on course materials and work out further examples for illustrating the concepts taught in the class.
8. Grading policy: Your grade for this course will be assigned according to the following *approximate* scale:

| | | | |
|----|----|-----|---|
| 90 | to | 100 | A |
| 80 | to | 89 | B |
| 70 | to | 79 | C |
| 60 | to | 69 | D |
| 0 | to | 54 | F |

This scale is not absolute, and the cutoff points may vary depending on the difficulty of the exams. Also, borderline cases may receive a + or -. The College and EPC ask that the A+ grade be used only in extraordinary situations.

9. Miscellaneous:

Administrative Home The College of Liberal Arts and Sciences (CLAS) is the administrative home of this course and governs its add/drop deadlines, the second-grade-only option, and other policies. These policies vary by college (<https://clas.uiowa.edu/students/handbook>).

Electronic Communication Students are responsible for official correspondences sent to their UI email address (uiowa.edu) and must use this address for all communication within UI (Operations Manual, III.15.2).

Accommodations for Disabilities UI is committed to an educational experience that is accessible to all students. A student may request academic accommodations for a disability (such as mental health, attention, learning, vision, and physical or health-related condition) by registering with Student Disability Services (SDS). The student should then discuss accommodations with the course instructor (<https://sds.studentlife.uiowa.edu/>).

Nondiscrimination in the Classroom UI is committed to making the classroom a respectful and inclusive space for all people irrespective of their gender, sexual, racial, religious or other identities. Toward this goal, students are invited to optionally share their preferred names and pronouns with their instructors and classmates. The University of Iowa prohibits discrimination and harassment against individuals on the basis of race, class, gender, sexual orientation, national origin, and other identity categories set forth in the University's Human Rights policy. For more information, contact the Office of Equal Opportunity and Diversity at diversity@uiowa.edu or diversity.uiowa.edu.

Academic Integrity All undergraduates enrolled in courses offered by CLAS have, in essence, agreed to the College's Code of Academic Honesty. Misconduct is reported to the College, resulting in suspension or other sanctions, with sanctions communicated with the student through the UI email address.

CLAS Final Examination Policies The final exam schedule for each semester is announced around the fifth week of classes; students are responsible for knowing the date, time, and place of a final exam. Students should not make travel plans until knowing this final exam information. No exams of any kind are allowed the week before finals. (<https://clas.uiowa.edu/faculty/teaching-policies-resources-examination-policies>.)

Making a Complaint Students with a complaint should first visit with the instructor or course supervisor and then with the departmental executive officer (DEO), also known as the Chair. Students may then bring the concern to CLAS (<https://clas.uiowa.edu/students/handbook/student-rights-responsibilities>).

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 must uphold the UI mission and contribute to a safe environment that enhances learning. Incidents of sexual harassment must be reported immediately. For assistance, definitions, and the full University policy, see <https://osmrc.uiowa.edu/>.