

STAT:5100 Statistical Inference I
Fall, 2017

1. Instructor: Kung-Sik Chan SH 263 335-2849 kung-sik-chan@uiowa.edu

office hours: MWF 11:30-12:30, 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 14 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	8/30, 9/11, 10/4, 10/16, 11/8, 11/29	24%
Exam 1	9/22 (Wednesday)	18%
Exam 2	10/27 (Wednesday)	18%
Final Exam	(date to be announced)	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 on Tuesdays from 3:30-4:20pm in 51 SH. 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 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 to 120 Schaeffer Hall, or see the CLAS Academic Policies Handbook at <http://clas.uiowa.edu/students/handbook>.

Electronic Communication University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences (Operations Manual, III.15.2, k.11).

Accommodations for Disabilities The University of Iowa is committed to providing an educational experience that is accessible to all students. A student may request academic accommodations for a disability (which includes but is not limited to mental health, attention, learning, vision, and physical or health-related conditions). A student seeking academic accommodations should first register with Student Disability Services and then meet with the course instructor privately in the instructor's office to make particular arrangements. Reasonable accommodations are established through an interactive process between the student, instructor, and SDS. See <http://sds.studentlife.uiowa.edu/> for information.

Academic Honesty All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College's Code of Academic Honesty: "I pledge to do my own academic work and to excel to the best of my abilities, upholding the IOWA Challenge. I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty." Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled (CLAS Academic Policies Handbook).

CLAS Final Examination Policies The final examination schedule for each class is announced by the Registrar generally by the fifth week

of classes. Final exams are offered only during the official final examination period. No exams of any kind are allowed during the last week of classes. All students should plan on being at the UI through the final examination period. Once the Registrar has announced the date, time, and location of each final exam, the complete schedule will be published on the Registrar's web site and will be shared with instructors and students. It is the student's responsibility to know the date, time, and place of a final exam.

Making a Suggestion or a Complaint Students with a suggestion or complaint should first visit with the instructor (and the course supervisor), and then with the departmental DEO. Complaints must be made within six months of the incident (CLAS Academic Policies Handbook).

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 Office of the Sexual Misconduct Response Coordinator 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. For more information on Hawk Alert and the siren warning system, visit the Department of Public Safety website.

Attendance Students are expected to attend every class unless for documented reasons including sickness or unavoidable circumstances. See <https://clas.uiowa.edu/faculty/teaching-policies-resources-student-absences> for the CLAS policies on attendance.