

STAT: 6300
Probability and Stochastic Processes I
113 MLH
Fall 2020
Stramer

Instructor: Osnat Stramer

Email: osnat-stramer@uiowa.edu

DEO:

Prof. Kung-Sik Chan, 241 SH, 335-0712

kung-sik-chan@uiowa.edu

Course Website: <http://icon.uiowa.edu>

Notes, review questions, quizzes, homework assignments, videos, etc. will be under files.

Text: Introduction to Probability Models **11th ed.**, Sheldon M. Ross

Topics: Chapters 1 - 2 (mostly review), 3, 4, 5, and 10 if time permits.

Prerequisites: STAT: 4100

Class Format:

- STAT:6300 will be Hybrid (combined face-to-face and virtual) instruction.
- The class will **not** be interactive. I will post recorded videos on ICON. It will be under files. You will be notified about the videos.
- I will schedule some in person review sessions as needed until Thanksgiving. All review sessions will be held during class time, in class.
- Quizzes and Tests until Thanksgiving are in person. Quizzes will be in class during class time and tests will be in the evening.

Office Hours:

- If you want to schedule time to meet (office hours), then we can have office hours through Zoom. I will schedule office hour meetings through email, and then we can connect through Zoom at a mutually agreeable time.
- You can also email me questions. Please try to be clear with your questions. I will also address your questions on the recorded video.

Grading System

Your semester grade will consist of the following components:

Quizzes	25%	In class. See below for the dates.
Midterm Exam I	25%	Wednesday September 30, 140 SH 6:30-8:30
Midterm Exam II	40%	Wednesday November 18, 140 SH 6:30-8:30
Final Exam	10%	Online.

Below is one standard set of letter grades and percent equivalencies that is often used. I will curve the grades up if necessary.

A+	A	A-	B+	B	B-	C+	C	C -	D+	D	D-	F
100- 99	98- 93	92- 90	89- 87	86- 83	82- 80	79- 77	76- 73	72- 70	69- 67	66- 63	62- 60	59 or below

Homework: In general (not always), one homework will be assigned each week (mostly on Fridays). Homework is not collected. Instead, homework answers are posted on ICON.

Quizzes: We will have 6 in person quizzes. The exact material for each quiz will be announced in advance. **Make up quizzes are not given under any circumstances. The lowest quiz score is dropped from the calculation of the course grade. No “crib sheet” is allowed unless stated otherwise.**

The dates for the quizzes are 9/9, 9/21, 10/5, 10/19, 11/2, 11/11.

Exams: There will be two midterm exams and one final exam. **The second midterm is cumulative.** The final exam is not cumulative. It includes the material we cover over the last few weeks of class. The two midterms will be closed book and closed notes. Calculator may be used for exams, and any necessary statistical tables will be provided. One 8.5”x11” formula sheets (both sides) may be used for midterm I, two 8.5”x11” formula sheets (both sides) may be used for midterm II. If an exam is missed, a make-up exam will be permitted only if the circumstances of missing the exam satisfy university policies. The final will be given online.

Further Reading

- Mark Pinsky & Samuel Karlin (2011). An Introduction to Stochastic Modeling, 4th edition.
- Vidyadhar G. Kulkarni (2017). Modeling and Analysis of Stochastic Systems, Third Edition.
- Ambrose Lo, ACTEX CAS Exam MAS-I Study Manual, Volume I (2019)

Course Policies:

UI and the College of Liberal Arts and Sciences
INFORMATION FOR UNDERGRADUATES

Absences and Attendance

Students are responsible for attending class and for contributing to the learning environment of a course. Students are also responsible for knowing their course absence policies, which will vary by instructor. All absence policies, however, must uphold the UI policy related to student illness, mandatory religious obligations, including Holy Day obligations, military service obligations, unavoidable circumstances or University authorized activities. Students may use the CLAS absence form to aid communication with the instructor who will decide if the absence is excused or unexcused. The form is on ICON in the top banner under "Student Tools." More information is at <https://clas.uiowa.edu/students/handbook/attendance-absences>.

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 UI email. Visit this page for information: (<https://clas.uiowa.edu/students/handbook/academic-fraud-honor-code>).

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 is then responsible for discussing specific accommodations with the instructor. More information is at <https://sds.studentlife.uiowa.edu/>.

Administrative Home of the Course

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 related policies. Other colleges may have different policies. CLAS policies may be found here: <https://clas.uiowa.edu/students/handbook>.

Class Behavioral Expectations

Students are expected to comply with University policies regarding appropriate classroom behavior as outlined in the [Code of Student Life](#). This includes the policies and procedures that all students have agreed to regarding the Steps Forward for Fall 2020 in response to the COVID-19 pandemic. Particularly, all students are required to wear a face covering when in a UI building, including a classroom. In addition, the density of seats in classrooms has been reduced; in some instances, this will allow 6 feet or more between students while other cases, it may be less. **Regardless, wearing a face covering and maintaining as much distance as possible are vital to slowing the spread of COVID-19.** In the event that a student disrupts the classroom environment through their failure to comply with the reasonable directive of an instructor or the University, the instructor has the authority to ask that the student immediately leave the space for the remainder of the class period. Additionally, the instructor is asked to report the incident to the [Office of Student Accountability](#) for the possibility of additional follow-up. Students who need a temporary alternative learning arrangement related to COVID-19 expectations should contact [Student Disability Services arrangements/](#); +1 319 335-1462)

<https://sds.studentlife.uiowa.edu/fall-2020/covid-19-temporary-learning-arrangements/>.

Class Recordings: Privacy and Sharing

Some sessions of a course could be recorded or live-streamed. Such a recording or streaming will only be available to students registered for the course. These recordings are the intellectual property of the faculty, and they may not be shared or reproduced without the explicit **written** consent of the faculty member. Students may not share these sessions with those not in the class; likewise, students may not upload recordings to any other online environment. Doing so is a breach of the Code of Student Conduct and, in some cases, a violation of the Federal Education Rights and Privacy Act (FERPA).

Communication and the Required Use of UI Email

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

Complaints

Students with a complaint about an academic issue should first visit with the instructor or course supervisor and then with the Chair of the department or program offering the course; students may next bring the issue to the College of Liberal Arts and Sciences; see this page for more information: <https://clas.uiowa.edu/students/handbook/student-rights-responsibilities>.

Final Examination Policies

The final exam schedule is announced around the fifth week of classes; students are responsible for knowing the date, time, and location of a final exam. Students should not make travel plans until knowing this information. No exams of any kind are allowed the week before finals with very few exceptions made (for labs, ESL and some world language courses, and off-cycle courses): <https://registrar.uiowa.edu/final-examination-scheduling-policies>.

Nondiscrimination in the Classroom

The University of Iowa is committed to making the classroom a respectful and inclusive space for people of all gender, sexual, racial, religious, and other identities. Toward this goal, students are invited in MyUI to optionally share the names and pronouns they would like their instructors and advisors to use to address them. 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 (<https://diversity.uiowa.edu/eod>; +1 319 335-0705 or diversity.uiowa.edu).

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, please see <https://osmrc.uiowa.edu/>.