

MATH 3160

Probability

Summer 2025

Instructor:	Lingxiao Zhang	Time:	MoTuWeTh 9:00AM - 11:15AM
Email:	lingxiao.zhang@uconn.edu	Modality:	Online synchronous

Course Description: Introduction to the theory of probability. Sets and counting, probability axioms, conditional probabilities, random variables, limit theorems.

Prerequisites: MATH 2110Q, 2130Q or 2143Q.

HuskyCT: <https://huskyct.uconn.edu> for class announcements and grade sheet.

Office Hours: Monday Friday 1 - 2 pm, or by appointment.

Discussion sections and TAs: None. It is the Department of Mathematics that decides the modality of the course and what is covered in this course.

Textbook: Joesph Blitzstein and Jessica Hwang, Introduction to Probability, Ch. 1-10. (you can download for free from <http://libgen.rs>)

Each topic is accompanied by a well-structured video: <https://www.youtube.com/watch?v=KbB0FjPg0mw&list=PL2S0U6wwxB0uwwH80KTQ6ht66KWxbzTIo>

Homework: Homework assignments are posted on HuskyCT. Each homework is due one week after being posted. Please do not wait until last day to finish your homework.

Exams: There will be a midterm on June 17 Tuesday and a final on July 3 Thursday. You will need to find one hour in the exam day to finish each exam online.

We review on June 16 Monday and July 2 Wednesday.

Midterm on June 17 Tuesday covers Chapters 1-5. Final on July 3 Thursday covers Chapters 6-10.

Instructions for taking exams: <https://kb.uconn.edu/space/TL/10731881590/Taking+a+Test+in+HuskyCT>

Grading Policy: Homework (40%) Midterm (30%) Final (30%)

Late Policy:

- No makeup for homework or exams. Four lowest homework assignment grades (or missed homework assignments) will be dropped automatically at the end the semester. It is not recommended that you wait until last day to finish your homework. The four drops should be saved for emergencies/sickness/appointments/accidents/funerals/power out/car broke down/miss the bus/hurry to class from a far place/have to leave early/have another two exams back to back/internet disconnection/broken computer/website temporarily closed...

Disability Services: If you have a physical, psychological, medical, or learning disability that may impact your coursework, please contact the Center for Students with Disability <http://www.csd.uconn.edu>, especially when you need to accommodate the exams. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Accommodations for Illness or Extended Absences: If you are experiencing illnesses or hardships for

a long time and need more than four drops, or if you have to **miss one of the exams**, please contact the instructor as soon as possible so that we can find a way to accommodate you.

Please bear in mind that every course has finite capacity to accommodate students. To be fair to the rest of the students, the type of accommodation provided to you might not be exactly the way you prefer. It is hard to accommodate you if you miss both the exams, and in that case please discuss with your academic advisor.

Useful resources:

- **The Quantative Learning (Q) Center:** The Q Center is a place on campus where there are knowledgeable people hanging around waiting for you to come by and ask for help with problems you are having with Q courses. Some students find it helpful to use up a couple of their tries at a problem on WebAssign homework and then visit the Q center for help with the problem, before going back to their homework. Tutoring is provided in the Q Center located in Homer Babbidge Library. Please visit the website <https://qcenter.uconn.edu/> for more details and hours.

Academic Integrity: Integrity is a crucial part of the academic experience. You must observe the University's Academic Integrity Policy at <https://community.uconn.edu/the-student-code-appendix-a/>. Cheating can result in one or more of the following: a score of zero on the assignment; a grade of F in the course; expulsion from the university and/or any subsidiary programs.

Policy Against Discrimination, Harassment and Related Interpersonal Violence: The University is committed to maintaining a safe and non-discriminatory learning, living, and working environments for all members of the University community - students, employees, or visitors. More information, including confidential and exempt employee resources available for support and assistance, can be found at <https://equity.uconn.edu> and <https://titleix.uconn.edu>.

Syllabus Revision: The instructor reserves the right to make any changes in this syllabus at any time. Notice of such changes will be by announcement in class and changes to this syllabus will be posted on HuskyCT. It is your responsibility to keep up with changes.

Tentative Schedule

Week of 6/2	Chapters 1-2
Week of 6/9	Chapters 3-5
Week of 6/16	Chapters 6-7
Week of 6/23	Chapters 8-10
Week of 6/30	Chapters 10-11 Chapter 11 is not covered in exam