

Stats 117
Introduction to Probability Theory
SUMMER 2025

Instructor:

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Course Objectives

We will be discussing the foundations of probability, discrete random variables, and continuous random variables.

We are covering Chapters 1 – 25 and 28 of the textbook.

Textbook

Introduction to Probability by Sun, Kim, and Sood

TA Sections/Tutorials

Students will join a tutorial with no more than two other students. Each tutorial will be led by an experienced instructor in the department and will meet once a week for 50 minutes. Students will be asked to review the textbook problems in the tutorial, with each student presenting at least one problem (of the tutorial leader's choice) from the homework at the board. Students are not allowed to bring anything up to the board.

The tutorial grade for students will depend on preparation and participation. Grades will not be based on correctness, but rather on the tutorial leader's assessment that the student has given the homework enough effort as to be able to substantively discuss the material with their instructor and peers. This format is designed to encourage students to focus on the learning process, build a closer relationship with an instructor, obtain feedback in a smaller group setting, and hone their presentation skills in a casual, supportive environment.

There are 7 tutorials throughout the quarter, each graded out of 10 points. Your total score for the quarter will be capped at 60.

Exams

There will be two in-person exams. The dates are:

1. **Midterm Exam.** Tuesday, July 29, 6:00 p.m. – 8:00 p.m.
2. **Final Exam.** Saturday, August 16, 3:30 p.m. – 6:30 p.m.

Each student is allowed to bring one 8.5×11 -inch piece of paper (regular printer paper) to each exam on which they can put, on both sides, whatever material they wish from the course coverage (definitions, formula, theorems, results, etc.) as an Exam Reference Sheet to be used by the student during the exam. Everything on the reference sheet must be in the student's own handwriting.

With the exception of the Exam Reference Sheet, all exams for Stats 117 are closed-book and closed-notes. Use of calculators is permitted; no other electronic aids are allowed.

If an emergency occurs and you need to miss an exam, contact us *as soon as possible*. Per department policy, there are no make-up exams.

Grading Breakdown

Category	Percentage
Tutorials	25%
Midterm Exam	30%
Final Exam	45%

Honor Code

The Stanford Honor Code was composed by students in 1921 (updated in 2023), and expresses the university's expectations for academic integrity. Please read it [here](#). Together with the [Fundamental Standard](#), these documents lay out the rights and responsibilities of Stanford students, in particular with regard to their academic behavior. Some key points:

- Students cannot submit the same written work for different classes.
- Plagiarism (copying passages from other people's work without attribution) is forbidden.
- Having someone else complete an assignment for you is forbidden.
- The use of or consultation with [generative AI](#) will be treated analogously to assistance from another person.

Office of Accessible Education

Stanford is committed to providing equal educational opportunities for disabled students. Disabled students are a valued and essential part of the Stanford community. We welcome you to our class.

If you experience disability, please register with the Office of Accessible Education (OAE). Professional staff will evaluate your needs, support appropriate and reasonable accommodations, and prepare an Academic Accommodation Letter for faculty. To get started, or to re-initiate services, please visit oae.stanford.edu.

If you already have an Academic Accommodation Letter, we invite you to share your letter with the instructor. Academic Accommodation Letters should be shared at the earliest possible opportunity so we may partner with you and OAE to identify any barriers to access and inclusion that might be encountered in your experience of this course.

If you have an OAE letter, please submit it to this [Google form](#).

AIWG (Academic Integrity Working Group)

This course is participating in the proctoring pilot overseen by the Academic Integrity Working Group (AIWG). The purpose of this pilot is to determine the efficacy of proctoring and develop effective practices for proctoring in-person exams at Stanford. To find more details on the pilot or the working group, please visit the AIWG's [website](#).