

# Statistics 251: Introduction to Mathematical Probability (Section 2)

## LOGISTICS

**Lecture:** MWF 11:30am-12:20pm, on Zoom.

**Textbook:** *A First Course in Probability* by Sheldon Ross (6th, 7th, 8th, or 9th edition).

**Website:** <http://yisun.io/teaching/autumn2020/stat251/stat251.html>

**Instructor:** Yi Sun (yisun@statistics.uchicago.edu), office hours 12:20pm-1:30pm Monday on Zoom.

**TAs:** TBD

## OVERVIEW AND PREREQUISITES

**Overview:** This course covers fundamentals and axioms; combinatorial probability; conditional probability and independence; binomial, Poisson, and normal distributions; the law of large numbers and the central limit theorem; and random variables and generating functions.

**Prerequisites:** One of the following:

- Math 16300, Math 16310, Math 20500, Math 20510, or Math 20900, with no grade requirement;
- Math 19520 or Math 20000 with either a minimum grade of B-, statistics major, or current enrollment in prerequisite course.

Contact me by email if you have questions about whether this course is appropriate for you,

## COURSE POLICIES

**Homework:** There will be weekly written homeworks due Monday. Homework should be submitted on Gradescope by the beginning of lecture on Monday. See the course website for submission information.

**Exams:** There will be a midterm exam and a cumulative final exam according to the following schedule.

- Midterm: Friday, October 30 during class
- Final Examination: Scheduled by the registrar

The use of notes, textbooks, or electronic devices will not be allowed during exams. No make-up exams will be offered without a letter from the dean or a doctor's note. No make-ups are possible for the final exam.

**Grading:** The final course grade will be determined according to the following formula:

$$(20\% \text{ Homework}) + \max\{(80\% \text{ Final}), (50\% \text{ Final}) + (30\% \text{ Midterm})\}.$$

The lowest homework score will be dropped to accommodate illness and other unforeseen circumstances.

**Late homework will not be accepted.**

**Collaboration and Academic Integrity:** I encourage you to work together on homework! For written homework, you must write your solutions alone and **understand what you write**. When submitting your homework, you should cite any sources you used (in print, online, or human) other than the textbook and myself.

**Students with disabilities:** In order to receive disability-related academic accommodations, students must first be registered with Student Disability Services (SDS). More information on the SDS registration process is available at [disabilities.uchicago.edu](http://disabilities.uchicago.edu). Registered students must present an accommodation letter to the instructor before exam or other accommodations can be provided. Students who have, or think they may have, a disability are invited to contact SDS for a confidential discussion.

## GETTING HELP

**Tutoring:** UChicago offers peer tutoring via the Core Tutoring Program. See more information at [college.uchicago.edu/academics/college-core-tutor-program](http://college.uchicago.edu/academics/college-core-tutor-program).

**Contact me:** Please come to office hours or email me for help if you are having difficulty with the material.