STA 4442/5440: Introduction to Probability I

**Course description:** This course covers various topics including combinatorial analysis, random variables (discrete and continuous), probability distributions, independence, conditional probability, sums of random variables, generating functions, central limit theorem, the laws of large numbers, etc.

**Prerequisite courses:** MAC 2311, MAC 2312. You need to be familiar with the theory and applications in Calculus I, II, III.

**Lecture:** 11:35 AM – 12:50 PM, Tuesday & Thursday @ SB 0108

**Instructor:** Rongjie (RJ) Liu  
**Email:** rliu3@fsu.edu  
**Office Hour:** 12:50 PM – 1:50 PM, Tuesday & Thursday @ SB 417

**Teaching Assistant:** Tingan Chen  
**Email:** tc19r@fsu.edu  
**TA Office Hour:** 11:00 AM – 12:00 PM, Monday & Friday @ SB 0340


**Notes:** All the lecture notes will be uploaded through Canvas.

**Homework:** The homework assignments will be posted on Canvas. You are encouraged to discuss with each other but should write down the answers independently.
**Exams:** There will be two midterm exams and one final exam. The midterms will be based on all the material covered by the time of the exams. The final exam will be cumulative. You will be permitted to bring a sheet of notes to the exams. You may need a calculator for some problems. All exams are in class. Here is the tentative schedule for the exams.

- ≈ Midterm 1: 11:35 AM – 12:50 PM, Thursday, Oct. 13
- ≈ Midterm 2: 11:35 AM – 12:50 PM, Thursday, Nov. 17
- = Final: 10:00 AM – 12:00 noon, Monday, Dec. 5

**Remark:** No late submissions will be accepted for any assignments or examinations.

**Final grade:** It will be determined by a weighted average of the following items: (1) two midterms (2 × 20%), (2) final exam 30%, and (3) homework (30%). You are guaranteed the following:

- If your final score is 93–100, your letter grade will be A;
- If your final score is 90–93, your letter grade will be A-;
- If your final score is 87–90, your letter grade will be B+;
- If your final score is 83–87, your letter grade will be B;
- If your final score is 80–83, your letter grade will be B-;
- If your final score is 77–80, your letter grade will be C+;
- If your final score is 73–77, your letter grade will be C;
- If your final score is 70–73, your letter grade will be C-;
- If your final score is 67–70, your letter grade will be D+;
- If your final score is 63–67, your letter grade will be D;
- If your final score is 60–63, your letter grade will be D-;
- If your final score is 0–60, your letter grade will be F;

**Course Policies:**

- Classroom policies: The classroom environment is an important factor for effective learning. In order to not distract other students’ attention please follow these classroom
policies. The first one of these is the university policy. Remember that no food or drinks are allowed in the classroom. Turn off all audible alarms (cell phones, pagers, calculators, watches etc.) Do not use cell phones in the class. Come to the class on time. Opening and closing the classroom door in the middle of a class cause distraction to the students and the teacher. Do not talk to other students without permission while the professor is teaching. More than one conversation creates noise and makes it difficult for the students to pay attention to the lecture.

- Attendance: You are required to attend all classes. The class activities will help you assimilate the lessons more easily, giving you an opportunity for active learning. Do not let this opportunity slip away. Any foreseen absence must be cleared with the instructor. If the absence is due to emergencies, it is the student’s responsibility to notify the instructor at the earliest opportunity of the emergency.

- Collecting returned homework/exam: It is the student’s responsibility to retrieve his or her homework/exam whenever they are returned and to check grades on the class website. If you notice any mistake in recording grades, please inform the instructor about it as soon as possible but no later than one week from grades been posted online.

- Homework re-grade: You have one week to request a re-grade of a homework from the date on which the graded homework is available to the students of the class. Submit a written request detailing the nature of the grading error to the TA/instructor along with the relevant homework.

- Contacting the instructor or TA outside the class: You are strongly encouraged to come to the instructor or TA during their office hours. If your schedule conflicts with the office hours, you can make an appointment. You may ask the instructor or TA brief questions by e-mail, but you may be asked to come to office hours if the instructor or TA thinks that the questions are better answered in person. When you send e-mails, remember the following: always send e-mails from your FSU accounts. The e-mails from non-FSU accounts may not reach me due to filters. Always write your full name at the end of each e-mail message you send.

- Academic honor policy: The Florida State University Academic Honor Policy outlines the University expectations for the integrity of students’ academic work, the procedures for
resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “… be honest and truthful and … [to] strive for personal and institutional integrity at Florida State University.” (Florida State University Academic Honor Policy)

- Students with disabilities: Students with disabilities in need of academic accommodation should: 1. Register with and provide documentation to the Student Disability Resource Center; 2. Bring a letter to the instructor indicating the type of accommodation needed. This should be done during the first week of class. See https://dos.fsu.edu/sdrc/ for more information.