

# Syllabus

## STA 4321 Introduction to Probability STA 5325 Fundamentals of Probability

Spring 2023

### Instructor:

Zhihua (Sophia) Su

Office Hours: Tuesday 12:00 pm -- 1:00 pm, Thursday 1:00pm – 2:00pm or by appointment, 207 Griffin-Floyd Hall.

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### Teaching Assistant:

Minxuan Wu

Office Hours: Wednesday: 12:30pm – 2:30pm, 101D Griffin-Floyd Hall.

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### Objectives:

The sequence of courses STA 4321-4322 (rep. 5325-5328) provides a formal and systematic introduction to mathematical statistics for students who have passed three semesters of standard undergraduate level calculus. STA 4321/5325 introduces the background in probability that is necessary to understand the classical statistical theory introduced in STA 4322/5328. Major topics include the basic formal elements of probability, discrete and continuous random variables, multivariate distributions, distributions of functions of random variables, and fundamental limit theorems.

### Text:

Mathematical Statistics with Applications (7<sup>th</sup> edition) by Wackerly, Mendenhall, and Scheaffer.

### Course Website:

Canvas

Please check this site regularly. Most course documents and important information, including homework assignment and solutions, sample exams and special announcements, will be posted there.

### Grades:

There will be approximately ten homeworks, typically due on Thursdays, and they will count for a total of 25%. No drops are allowed. Three in-class exams (supervised via Honorlock) are tentatively scheduled during regular class periods on **February 21, March 28 and April 25**, and they will count 25% each. You will be permitted to bring one 8.5 by 11 sheet of paper with formulas or notes on both sides to each exam. **No make-up exams will be offered.**

The usual 10 point scale (90% for an A, 87% for an A-, 83% for a B+, 80% for a B, ...) is used.

**All grades are final and not negotiable.**

**Homework policy:**

The professor and Teaching Assistant make every effort to ensure that grades assigned are scrupulously fair and reflect the quality of the work concerned. Due to this process of consultation and the use of uniform grading criteria, the TA has complete authority in all actions that he undertakes regarding the HW, and the professor is unlikely to rescind any of his decisions. Please see the attached TA's homework policy.

**Lecture Attendance:**

The course requires steady effort throughout the semester. Classroom lecture attendance is fully expected, even if not strictly enforced. You are responsible for learning all material presented during lecture, and any topic covered in lecture is a potential exam topic (unless otherwise stated).

**Reasonable Accommodations:**

To request classroom accommodation, please be certain that you have made all necessary arrangements with the Dean of Students Office, and obtain from them documentation to submit to the instructor at the time of your request. A request must be made to the instructor at least one week in advance of the date for which the accommodation is requested. This course information and policies sheet can be made available in alternative formats to accommodate print-related disabilities. Contact the instructor for more information.

**Academic Integrity:**

Please familiarize yourself with the Student Honor Code and Academic Honesty Guidelines outlined in your University of Florida Student Guide and at <http://www.dso.ufl.edu/sccr/honorcode.php>