

# Syllabus

## STA 4322 Introduction to Statistical Theory STA 5328 Fundamentals of Statistical Theory

Spring 2022

### Instructor:

Zhihua (Sophia) Su

Office Hours: M, W: 2:00 pm -- 3:00 pm or by appointment, 207 Griffin-Floyd Hall, or via Zoom.

Email: zhihuasu@stat.ufl.edu

### Teaching Assistant:

Swarnali Raha

Office Hours: Tuesday: 2:30pm – 3:30pm, Thursday: 2:00pm – 3:00pm, 234 Griffin-Floyd Hall, or via Zoom.

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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. Major topics of STA 4322/5328 include normal-theory sampling distributions, estimation methods, properties of point estimators, confidence intervals, hypothesis testing and related theory, and basic linear regression. The primary purpose of STA 4322/5328 is preparation for graduate-level study in statistics and closely related subjects.

### 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 Fridays, and they will count for a total of 25%. No drops are allowed. Three in-class exams are tentatively scheduled during regular class periods on **February 14, March 21 and April 20**, 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>

**CLAS Zoom Presence policy:**

Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their

camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who unmute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.