

Syllabus

STA 4321 Introduction to Probability

Summer 2023

Instructor:

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Objectives:

The sequence of courses STA 4321-4322 provides a formal and systematic introduction to mathematical statistics for students who have passed three semesters of standard undergraduate level calculus. STA 4321 introduces the background in probability that is necessary to understand the classical statistical theory introduced in STA 4322. 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.

Course Material:

Course notes (will be posted on Canvas).

Required textbook: Mathematical Statistics with Applications (7th edition) by Wackerly, Mendenhall, and Scheaffer. The course covers Chapter 1-6 in this book.

Lecture Format:

The course will be delivered **in person** in the classroom.

Prerequisites:

MAC 2313 with a minimum grade C.

Course Website: Canvas

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

Grading and exams:

The total score grade consists of:

Percentage	Source	Date
40%	Homework	Multiple
20%	Quizzes	Multiple
20%	First exam (in class)	June 2 nd (tentative)
20%	Second exam (in class)	June 23 rd

There will be approximately five homeworks, and they will count for a total of 40%. Late assignments will be accepted in cases of documented emergency or illness. In all other cases, acceptance of late assignments will be at the discretion of the instructor and scores on late submissions will be reduced by 10% plus an additional 5% for each additional day between the due date and the time of submission.

The mid-term exam is tentatively scheduled on **June 2nd**, and it will count 20%. The final exam is in-class on the last day of class from 9:30 to 10:45 am. You will be permitted to bring one 8.5 by 11 sheet of paper with formulas or notes on both sides to the mid-term and the final exam.

Makeup exams will be given only for excused absences as determined by the university's policies on attendance. Students must notify the instructor as early as possible **prior to** the exam of any planned absence or illness, otherwise no make-up exam will be given. For unplanned absences because of accidents or emergency situations, students should contact the instructor as soon as conditions permit. Documentation of excused activities and illnesses will be required before any makeup exam is given.

Letter grades in the course will be determined from the final course average according to the following scale:

A	A-	B+	B	B-	C+	C	C-	D
94-100	90-93	87-89	83-86	80-82	77-79	67-76	50-66	0-49

All grades are final and not negotiable.

Homework policy:

The lecturer 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 lecturer is unlikely to rescind any of her decisions.

Course Communication:

- Please wear a mask during in-person office hours.
- Use GatorMail for email; otherwise, you may not hear back from me. I do not check Canvas inbox.
- Put 4321 in the subject line of your email; otherwise, I may miss your email.
- Allow me 24 hours to reply to your email. Frequently asked questions will be answered in class.
- Email is not ideal for content questions. Ask them in person (e.g., in class, office hours, etc.).

Recording of Class Sessions:

Unauthorized recording and unauthorized sharing of recorded materials by students or any other party is prohibited.

Lecture Attendance:

The course requires steady and intensive effort throughout the semester. 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).

Accommodations for Students with Disabilities:

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Student must submit this documentation prior to submitting any assignments or taking any exam or quiz for which you are requesting accommodation. A request must be made to the instructor **at least one week** in advance of the date for which the accommodation is requested.

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>