

**STA 4321 - Introduction to Probability**  
**Section 1195, OL95 (3 credit hours)**  
**Class 23988, 26276**  
**Spring 2021 Syllabus**

January 5, 2021

**Course Information and Policies**

**Instructor:**

Sourav Mukherjee

Email: [souravmukherjee@ufl.edu](mailto:souravmukherjee@ufl.edu) (Preferred way of communication)

Phone: +1-352-888-1271 (ONLY in case of urgency)

**Teaching Assistant (TA):**

Yichen Bai

Email: [ybai@ufl.edu](mailto:ybai@ufl.edu)

**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 in this course include the basic formal elements of probability, discrete and continuous random variables, their distributions, multivariate distributions, distributions of functions of random variables, and fundamental limit theorems.

**Prerequisite:**

MAC 2313 (or equivalent third semester calculus course). A well prepared student should have taken an introductory statistics course, such as STA 2023 or STA 3032.

**Course Website:**

<https://elearning.ufl.edu/>

Please check the above mentioned course's canvas site regularly. Most course documents and important information, including suggested homework exercises and readings, quiz and exam assignments, course schedule, Zoom recorded lecture links and special announcements, will be posted there.

**Lecture:**

Monday, Wednesday and Friday, Period 3 (9:35 am – 10:25 am)

Room: AND 0034 and Zoom Video Conference

Face-to-face students present in class must have "CLEARED for Return to Campus" status in their ONE.UF account.

**Recurring Zoom Conference Link for Classes:**

<https://ufl.zoom.us/j/8471229887?pwd=Ynk4Y0VTeTZ1NWFQaFRrc1gyZ2RvUT09>

(Passcode: UF847)

**Online Office Hours:**

Office Hours are going to be held completely online through Zoom video conference

**TA Office Hours:** Yichen Bai

Timings: Tuesday (9:30 am - 11:30 am) and Thursday (10:30 am - 11:30 am)

Recurring Zoom link:

Tuesday, <https://ufl.zoom.us/j/91226367069>

Thursday, <https://ufl.zoom.us/j/91601563919>

**Instructor Office Hours:** Sourav Mukherjee

Timings: Monday, Wednesday and Friday, (12 noon - 1 pm)

Recurring Zoom link: <https://ufl.zoom.us/j/8471229887?pwd=Ynk4Y0VTeTZ1NWFQaFRrc1gyZ2RvUT09>

(Passcode: UF847)

**Required Textbook:**

Mathematical Statistics with Applications; Author: Wackerly, Mendenhall & Scheaffer; 7th Edition; Cengage

### **Homework (Ungraded):**

Appropriate textbook readings and suggested textbook exercises will be posted as the course progresses. You are not expected to submit your answers to the suggested exercises, but you should solve all of them to thoroughly learn the material and best prepare yourself for exams. Though you are allowed to work with other students to solve the suggested exercises and to learn course material in general, please keep in mind that you will be assessed individually. Brief answers to selected exercises can be found near the end of the textbook. Naturally, you will learn best if you attempt to solve the exercises by yourself. The detailed solutions for Homework will be posted in Canvas few days after posting the homework problems.

### **Quizzes (Graded):**

There will be approximately Eight Online Quizzes (with Multiple-Choice type questions). **All Quizzes will be held Online through Honorlock in Canvas.** No books, notes or other references may be used during a quiz. Coverage details and Instructions on using Honorlock will be announced in canvas prior to the date of each quiz. **All quizzes have equal weight for grading, but the lowest Three of your quiz scores will be dropped** - to give you the highest final score in the course, as determined by the instructor. **No make-up quizzes will be offered.** The tentative dates for the quizzes are as follows:

Monday, January 25 - Quiz 1  
Wednesday, February 3 - Quiz 2  
Monday, February 15 - Quiz 3  
Friday, February 26 - Quiz 4  
Friday, March 12 - Quiz 5  
Monday, March 22 - Quiz 6  
Wednesday, April 7 - Quiz 7  
Monday, April 19 - Quiz 8

### **Exams (Graded):**

Four within-term exams are tentatively scheduled on:

Friday, February 5 - Exam 1  
Wednesday, March 3 - Exam 2  
Monday, March 29 - Exam 3  
Monday, April 26 - Exam 4

**All Exams will take place completely Online in the usual class timing for the entire**

class period. Students need to take the exams using Honorlock in Canvas. It is compulsory for the Online students from section - OL95 to take the Exams online. However, for face-to-face students from section - 1195: if any student need to take exams offline (in-class), he/she must inform the instructor at least one week prior to each exam date so that necessary arrangements can be made. No books, notes or other references may be used during a Exam. Policies, coverage details and instructions on using Honorlock will be announced in detail prior to the date of each exam. **All within-term exams have equal weight for grading, but the lowest of your first three within-term exam scores will be dropped – to give you the highest final score in the course, as determined by the instructor.** The fourth within-term exam on April 26 is compulsory. The exams are not going to be cumulative, but concepts and theories from the previous exam syllabus might be needed.

#### **Makeup Exam Policy:**

Every effort should be made to take the exam on the scheduled regular exam dates. **Only extreme situations will warrant a makeup exam. Contact the instructor prior to the exam - as soon as you realize you will be unable to take the test at the scheduled time.** Each case will be reviewed individually. Valid and detailed documentation is a prerequisite for scheduling a makeup exam under such extenuating circumstances. There are no retakes on the exam, even if you were feeling badly during the exam. If you are feeling badly, you need to contact the instructor before the exam and provide a doctor's note. If you have an emergency on the day of the exam, the instructor must be contacted by midnight of the day of the exam via email.

To make arrangements for a makeup exam: Contact the instructor at [souravmukherjee@ufl.edu](mailto:souravmukherjee@ufl.edu). Makeup exams will cover the same material as the regularly scheduled exam.

#### **Course Grade:**

Grading will be based on a composite score: 25% **quizzes**, 75% **within-term exams (each carrying 25%)**. Final letter grades will be assigned on the University's newly-instituted grading scale that includes minus-grades. Please familiarize yourself with the new policy related to this scale and the resulting changes in the grade point equivalences of letter grades.

Details may be found on the following web page:

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/#gradestext>

A grade of incomplete (I) is assigned only in rare cases, such as if you are absent with extenuating circumstances from the Final exam. **Extenuating circumstances require specific, official documentation (eg. a signed excuse note from the Student Health Care Center).** **You are eligible for a grade of Incomplete only if you have completed 3/4<sup>th</sup> amount of the graded course work and taken the first three exams and you are currently**

**passing based on that work, as determined by the instructor.** If you find that you cannot continue the semester before this point is reached, you should instead seek an administrative withdrawal. The deadlines can be found at:

<https://catalog.ufl.edu/UGRD/dates-deadlines/2020-2021/#spring21text>

As part of receiving a grade on Incomplete, University policy requires you to sign a contract with the instructor that specifies a plan and deadline for completing the course.

### **Lecture Attendance:**

Online and In-Class 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).

### **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 un-mute 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.

### **Academic Integrity:**

Please familiarize yourself with the Student Honor Code and Academic Honesty Guidelines outlined in your University of Florida Student Guide and at:

<https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

### **Reasonable Accommodations:**

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center (DRC) by visiting:

<https://disability.ufl.edu/students/get-started/>

It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

### **Honorlock Student Guide:**

**Students are completely responsible for setting up Honorlock in Canvas and meeting**

**the minimum system requirements for using Honorlock before each quiz and exam.**

Students must have **stable internet connection and a webcam** to take the exam and quizzes.

Detailed instructions on using Honorlock and a video guide can be found at the following website:

<https://warrington.ufl.edu/covid-19/information-for/for-students/honorlock-student-guide/>

You can find the updated Minimum System Requirements, as well as a system compatibility test for using Honorlock at: <https://honorlock.com/support/>

To get more information about Honorlock, please visit:

<https://honorlock.com/students/>