STA 4321 (15060 in-person, Section 5516)

Fall 2025

Introduction to Probability

MWF 12:50 p.m. - 1:40 p.m. in AND 1034

Course Overview

Instructor: Andrew Glover

Office:	Griffin Floyd 103C
E-mail:	andrew.glover1@ufl.edu
Office Hours:	T: 2 - 4, R: 3-4 (all p.m.) in Griffin-Floyd 103C, or by appointment
Phone Number:	352-392-1941 (Email and Canvas is the preferred method of contact)

Teaching Assistant 1: Jaewoong Joo

E-mail:	jaewoongjoo@ufl.edu
Office Hours:	T & R: 9 a.m - 10 a.m.
	Email and Canvas is the preferred method of contact

Course Goals and 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 and STA 5325 introduces the background in probability that is necessary to understand the classical statistical theory introduced in STA 4322 and STA 5328.

Prerequisite(s): MAC 2313 (or equivalent third semester calculus course). Preferably, students will have taken an introductory statistics course as well, such as STA 2023 or STA 3032.

Credit Hours: 3.

Textbook Wackerly, Mendenhall, and Scheaffer, *Mathematical Statistics with Applications* (7th ed), Duxbury Press (Thomson Brooks/Cole Publishing), 2008. There are **NO** material or supply fees

- The textbook is not required but recommended.
- Exams will be based on material presented in lectures, which approximately corresponds to Chapters 1–7 of the textbook.

Weekly Course Schedule: This is the tentative weekly class plan, before events where class has to be canceled (hurricanes and other extreme events).

Week	Topics	Test/ Quiz
1	Intro (its just the Friday Class)	None
2	Fundametal Probablity Defintions, Counting	Quiz 1
3	Probability Rules	Quiz 2
4	Discrete Random Variables, Definition and Properties	Quiz 3
5	Examples of Discrete Distributions	Test 1
6	Examples of Discrete Distributions Continued	Quiz 4
7	" Continued	Quiz 5
8	Continuous Random Variables, Definition and Properties	Test 2
9	Examples of Continuous Distributions	None
10	Examples of Continuous Distributions Continued	Quiz 6
11	MGF, Mixed Distributions	Test 3
12	Joint Distibutions, Defintion and Properties	Quiz 7
13	Joint Distibutions Properties	Quiz 8
14	Joint Probablities Techniques	Quiz 9
15	Convergence theorems and CLT	None

Course Website: Course materials will be posted the course's eLearning site (Canvas), where grades will also be posted. Please check this site regularly for updates and announcements. Course documents and important information will be posted there.
e-Learning

Course Communication:

- Use e-mail to contact the instructor regarding administrative matters. Please include **STA 4321** in the subject line.
- For questions regarding course content, please see the instructor or TAs during office hours.

Syllabus Changes: The instructor reserves the right to update any part of this syllabus as necessary. Students will be notified of any changes.

Course Policies

Demeanor

All members of the class are expected to follow rules of common courtesy in all classroom discussions, email messages, threaded discussion and chats.

Attendance

Attendance at lectures will not be recorded nor graded. This course will also abide by the university attendance policies.

Assignments, Quizzes and Tests

Tests There will be 4 in-person tests given through out the year. Tests will be given during class time. Each test will have two parts. In the first part, students will be asked to write a few definitions or theorems from memory. Students will be notified in advance which definitions or theorems will be fair game. This part should take around 5-10 minutes. Students will hand in the first part and then will have the remaining time to complete the second part. It will consist of 3-4 problems of similar scope to the homework problems. You **will** be allowed an 8.5 by 11 inch piece of paper with handwritten notes (both sides) for this part of the test. You will also be allowed to use a calculator but it will not be required. It is possible that 1-2 homework problems will appear on the test (perhaps with some of the numbers changed). Test will happen about a week after we cover the necessary material. The tentative dates for the tests are as follows:

Test	**Tentative Date**
1	Wednesday, September 17th
2	Wednesday, October 8th
3	Friday, October 31st
4	December 11, 12:30-2:30

Test 4 will be given at the university-assigned final exam time and location during finals week. Test 4, however will **NOT** be cumulative.

Quizes There will be roughly 9 quizes through out the semester. They will be given on the last 10 minuites of class on Fridays and cover the material from the previous 3 classes. They will not be given in the same week as a test. To be clear, this is the material from the Monday and Wednesday from the same week and the material from the Friday from the week before. There will be about 5 questions per quiz and the questions will either be multiple choice or recalling definitions. The quizzes part of your final grade will drop your lowest 3 quiz grades, as determined by the TA to maximize your grade. Answers and suggestions of solutions will be posted. No make-up quizzes will be offered.

Assignments: Regular assignment problems will be assigned but they will not be collected or count towards your final grade. Solutions to the problems will be given, although it will be more beneficial if you attempt the problems before looking at the solutions.

Grade Corrections: If you believe there was a mistake made in the grading of your quiz or exam, please see the instructor within one week after the grade has been posted. Questions regarding homework assignments should be first sent to the TA who graded it. Grade negotiation is not appropriate.

Grading

Grade Weights Your grade will be determined from the following weights:

Part	Percent of Grade
Quizzes	20%
Test 1	20%
Test 2	20%
Test 3	20%
Test 4	20%

Letter grade assignment

There will be *no rounding up* of scores. But the grade cutoffs might be adjusted downward for the whole class when assigning the final grades.

Grade	Range
A	93 to 100
A-	90 to < 93
B+	87 to < 90
B	83 to < 87
B-	80 to < 83
C+	77 to < 80
C	73 to < 77
C-	70 to < 73
D+	67 to < 70
D	63 to < 67
D-	60 to < 63
E	< 60

To view the result of the letter grades to your GPA please visit the UF Grade and Grading Policies.

Make-up

Requirements for assignments and other work in this course as well as policies regarding absences, religious holidays, illness and student athletes are consistent with UF Attendance Policies.

Grievances/Commendations

Should you have any grievances or commendations with your experience in this course you can always address them

- to the instructor at andrew.glover1@ufl.edu, or
- the Department of Statistics.

For issues that are not satisfactorily resolved at the department level or which seem to be broader than one department, students are referred to the Office of the Ombuds.

UF and CLAS Policies

Dropping, Withdrawing and Incomplete

Dropping and Withdraw

For late course drops and course withdrawals check the catalog.

Incomplete

An incomplete grade may be assigned at the discretion of the instructor as an interim grade for a course in which the student has completed a major portion of the course with a passing grade, been unable to complete course requirements before the end of the term because of extenuating circumstances, and obtained agreement from the instructor and arranged for resolution of the incomplete grade in the next term. Instructors are not required to assign incomplete grades. For complete details please visit CLAS incomplete grade policy and contract.

Accommodating Students with Disabilities

Students requesting accommodation for disabilities must first register with the Disability Resource Center (DRC). The DRC will provide documentation to the students who must then provide this documentation to the instructor when requesting information. You must submit this documentation prior to submitting any assignments for which you are requesting accommodation.

U Matter, We Care

U Matter, We Care offers care related resources and programs focused on health, safety, and holistic well-being.

Academic Misconduct

Students are held accountable to the UF Student Honor and Conduct Code.

Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, or in their Canvas course menu under GatorEvals. Guidance on how to give feedback in a professional and respectful manner, and summaries of course evaluation results are available to students through `https://syllabus.ufl.edu/syllabus-policy/uf-syllabus-policy-links/`.