

Syllabus and Basic Information for STA4321/5325 (subject to change)

Instructor: Rohit Patra

Objective 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.

Course Website We will use Canvas. I will post recommended readings, homeworks, and some notes on Canvas.

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Recommended Books These are recommendations not requirements.

- Mathematical Statistics with Applications, 7th Edition by Dennis Wackerly, William Mendenhall, and Richard L. Scheaffer **Chapters 1—7**
- Introduction to Probability and Its Applications, 3rd Edition by Richard L. Scheaffer and Linda J. Young **Chapters 1—7**

Grades: The final grade is based on the following composite score:

— Class participation	— 5%
— In class quiz	—15%
— Homework	— 5%
— 1st Midterm, TBA, inclass	—20%
— 2nd Midterm, TBA, in class	—20%
— Final TBA	—35%

All exams and quizzes are cumulative.

In Class Quiz There will be approximately biweekly quizzes and will be held at start of the class (don't be late). You will have 5-10 minutes to answer a few short questions. No books, notes or other references may be used during a quiz. All quizzes have equal weight for grading, but **two** of your quiz scores will be dropped. No make-up quizzes will be offered. I will notify you about the upcoming quizzes in class or via email.

Lecture Attendance 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).

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/studentguide/studentrights.php>.

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.