

**STA 4321 /STA 5325**  
**Introduction to Probability / Fundamentals of Probability**  
**Section :: 5516 / 5534**  
**Fall 2012**  
**Instructor :: Abhishek Saha**

**Objective** The course STA 4321 (and 5325) introduces probability to students who have passed 3 semesters of undergraduate level calculus. The materials learned here will be needed later for understanding the classical statistical theory that is taught in courses like STA 4322 (and STA 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.

**Prerequisite** MAC 2313 or equivalent third semester calculus course.

**Course website** <http://www.stat.ufl.edu/~abhisheksaha/sta4321.html>  
Please visit this website regularly. Most course documents, suggested homeworks, important information and announcements will be posted there.  
We will be using e-learning to do the quizzes. So if you have not used e-learning previously please familiarize yourself with it.

**Instructor** Abhishek Saha  
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**TA** Ruoxuan Xiang  
Office :: McCarty C, Room 427  
Time for tutoring hour :: Monday, Wednesday 4-th period (10:40-11:30 a.m.)

**Lecture** Lectures will be held Monday, Wednesday, Friday at TUR 2319, 1st period (7:25-8:15 am)

**Office Hours** The office hours for the TA is already given. The office hour for the instructor is to be announced later in the course website.

**Required textbook** Mathematical Statistics with Applications  
Authors :: Dennis Wackerly , William Mendenhall , Richard L. Scheaffer  
We shall use the textbook mainly for doing the problems, so if you

don't want to buy it you can go to the Martson library for a 2 hr loan and copy or xerox the problems.

From time to time you may notice that my notes and the text book doesn't agree on some notations or something else. In those cases follow my notes.

**Homework** Homeworks will be assigned from time to time as the course progresses. They are not to be submitted but surely to be tried at home. If the student wants to know whether she is doing well she should check whether she is good with the homework. The homeworks are important for the the exam. If any doubt, contact the TA or the instructor.

**Quizzes** There will be 10 quizzes each worth 4 points. The quizzes will be mainly online on e-learning, but sometimes they can be in-class also. In any case it will be announced beforehand. The quizzes will be timed 30 mins for online and 15 mins for in-class. The online quizzes will have a beginning date and an ending date. If a student misses the quiz for any reason it will not be repeated. It's better to take the online quizzes from the UF campus computers, because if the internet is down in your home in the middle of a quiz you will loose your points.

**Extra Credit Quiz** Extra credit quizzes may be given suddenly in the middle of a class without any warning and the questions given will be a bit difficult than usual. When this quizzes will happen and what questions will be given is totally at the instructors discretion.

**Exams** There will be 4 exams, each worth 20 points. Exams will be taken in-class for the entire period. The materials covered and policies will be discussed in class. The tentative dates are ...

**Exam 1::** September 17

**Exam 2::** October 15

**Exam 3::** November 14

**Exam 4::** December 11

The best 3 exams will be chosen. **Exam 4 held on Dec 11 is compulsory and not cumulative. Academic dishonesty** on any exam will result in a grade of zero on that exam.

Makeup exams are only allowed when you have a medical emergency or conflict with another exam. In those cases you should contact the instructor by email as soon as possible. Any other reason like being on vacation is not a valid reason. The policies for exam conflicts are given in more detail at <http://www.registrar.ufl.edu/currents/finalexams.html>

**Couse Grades** 10 quizzes each worth 4 points and 3 exams each worth 20 points; so that makes total of 100 points. Final letter grades will be calculated based on this 100 points. The cutoffs will be uploaded later.

**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>