

STA 4321 / 5325 - Introduction to Probability / Fundamentals of Probability
Section 1055 / 1057
Summer-A 2011

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Class: MTWRF 9:30am - 10:45am PUGH 170

Course Website: www.stat.ufl.edu/~tabrahamsen/Summer2011/STA4321.html

Course Objectives: The sequence of courses STA 4321-4322 / STA 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 / STA 5325 introduces the background in probability that is necessary to understand the classical statistical theory introduced in STA 4322 / STA 5328. Major topics covered will include: basic probability concepts, counting rules, conditional probability, independence, additive and multiplicative laws, Bayes Rule. Discrete and continuous random variables, their distributions, moments, moment generating functions. Multivariate probability distributions, independence, covariance. Distributions of functions of random variables.

Prerequisites: MAC 2313 and either STA 2023 or STA 3032

Required Materials:

Textbook: *Mathematical Statistics with Applications* by Wackerly, Mendenhall & Scheaffer 7th Edition, Brooks/Cole, 2008.

Grading:

Exams	75% ($3 \times 25\%$ each)
Homework	25%

Exams: There will be a total of 3 exams in-class exams. You must take the exam at the scheduled time. In the case of a sudden illness or emergency, contact me as soon as you realize you will be unable to take the test. Each case will be reviewed individually. Official and detailed documentation is a prerequisite for scheduling a make-up exam under such extenuating circumstances. In all cases you must contact me PRIOR to the time of the regularly scheduled exam.

Tentative Exam Dates:

	Exam Date
Exam 1	Wednesday, May 25 rd
Exam 2	Wednesday, June 8 th
Exam 3	Friday, June 17 th

Homework: Homework problems from each chapter will be assigned on a weekly basis. You must show all work and explain your reasoning to receive full credit for your solution. You are allowed to work with other students on assignments, but must turn in your own work. No late assignments will be accepted. **Staple your Homework!**

Grading Scale: The following grading scale is tentatively adopted.

90% and above	A
87-89%	A-
84-86%	B+
80-83%	B
77-79%	B-
74-76%	C+
67-73%	C
60-66%	D
59% and below	F

Course Policies:

Academic Dishonesty: All students are required to abide by UF's academic honesty guidelines.

Attendance: It is in your best interest to attend all lectures. You are responsible for all material covered as well as any announcements made in class.

Grades: Grades will only be changed when an error has been made; negotiation is not appropriate. There is no appeal process.

Classroom Accommodations: Students requesting classroom accommodations must first register with the Dean of Students Office. The Dean of Students Office will provide the student with a letter to be given to the instructor when requesting accommodation.