

STA 4321/STA 5323 Introduction to Mathematical Statistics – Summer 2008- Session B

Time & Place: M through F 9:30 - 10:50 AM, OSB 110
Instructor: Dr. Vic Patrangenaru
Email: vic@stat.fsu.edu
Office Hours: T W R 11:00AM - 1:00 PM , OSB 208
Grader Info: Ms. Jihyung Shin, e-mail: jshin@stat.fsu.edu
Grader Office Hours: M through F 12:30 AM - 1:30 PM , OSB 209B

Text: *Statistical Inference, Second Edition*, by George Casella and Roger Berger.
ISBN: 0534243126

Important Dates:

Monday, May 12	First day of Summer Session B. First day attendance is compulsory.
Tuesday, May 13	In class test of prerequisites. Results on May 14. A score of 60% is needed to continue.
Thursday, May 15	Last day to drop and add and have fees adjusted.
Monday, May 26	Memorial Day, no class.
Thursday, May 29	In class Midterm Exam 1.
Friday, May 30	Last day to drop a course without receiving a grade.
Monday, June 9	In class Midterm Exam 2.
Friday, June 20	Last day of class. In class Final exam.

Prerequisite: MAC 2313 (Calculus III)

Course Outline: (following the book)

Chapter 1	Probability Theory
Chapter 2	Transformations and Expectations
Chapter 3	Common Families of Distributions
Chapter 4	Multiple Random Variables
Chapter 5	Properties of a Random Sample

Course Topics:

Stat 4321 is a course designed to give students both an intuitive and a logical account of basic probability needed for statistics. Upon completion of the course students should master concepts such as probability space; counting principles; conditional probability; Bayes' rule; independence; distributions of random variables; joint, marginal and conditional distributions of multivariate random vectors; expectations ; sampling distributions . Time depending the course will also cover limiting distributions, the Central Limit Theorem and its applications.

Grading:

The course grade will be calculated on the basis of attendance (5%), homework (25%) , midterm exams 1 of 25%, midterm exam 2 of 15% and final exam of 30%. The dates of the first two tests will be discussed and announced in class. There will be no make ups. Homework will be collected typically on Mondays and Thursdays.

Class Attendance:

If you need to miss an exam due to an officially approved trip, illness, family emergency, religious holiday (see below), or other emergency situations, please let me know as soon as possible. Makeup exams will only be given if an acceptable documentation is produced. If at all possible, please be courteous and notify me *before* the scheduled time of the exam. **Active attendance adds up to 3% bonus points.** On the other hand, if you miss at least 3 times in a row, this extra credit is lost.

Disclaimer:

This syllabus provides a general plan; deviations may be necessary.