

STA4321 - STA5323 Introduction to Mathematical Statistics-SUMMER SESSION B-2019

Days/Time/Room: MTWTF 11:00 AM -12:20PM OSB 110

Instructor: Prof. Vic Patrangenaru, PhD's

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Textbook: Statistical Inference, Second Edition, by George Casella and Roger Berger.

ISBN: 0534243126

Prerequisite: a grade of C of higher in 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 on attendance (5%), homework (30%), midterm exam 30%, and a final exam of 40%, on Friday, June 21. The date of the first exam will be discussed and announced in class. There will be no make ups. Homework will be collected typically on Wednesdays and Fridays. This is a fast paced course- attendance is paramount. Grading scale up to 59.999% : F, 60% - 69.999% : D-, D, D+, 70% - 79.999% : C-, C, C+, 80% - 89.999% : B-, B, B+, 90% - 90.333%: A-, 90.334 or higher : A.

Active attendance adds up to 5 bonus points. If you miss classes without a formal FSU approved excuse, the extracredit is lost.

University Attendance Policy: Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness. May 17, 2019 is the very last day to add courses without academic dean's permission or to drop/add classes and have fees adjusted. For other important dates see <http://registrar.fsu.edu>

Academic Honor Policy: The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the

procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "...be honest and truthful and...[to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://fda.fsu.edu/Academics/Academic-Honor-Policy>)

Americans With Disabilities Act: Students with disabilities needing academic accommodation should: (1) register with and provide documentation to the Student Disability Resource Center; and (2) bring a letter to the instructor indicating the need for accommodation and what type. Please note that instructors are not allowed to provide classroom accommodation to a student until appropriate verification from the Student Disability Resource Center has been provided. This syllabus and other class materials are available in alternative format upon request. For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center
874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice), (850) 644-8504 (TDD)
sdrc@admin.fsu.edu
<http://www.disabilitycenter.fsu.edu/>

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