Course Content and Objectives

We will cover much of Chapters 2, 3, 4, 5, 6 and one of the Chapters 8.10 or 11 of the book:
Introduction to Probability Models
This includes: Probability Spaces, Discrete and Continuous Random Variables, Conditional Probabilities, and Expectations, Standard Distributions, Poisson Processes, Discrete and continuous Parameter Markov Chains and either Queues, Brownian Motion or Simulation

Instructor and Office Hours

Murali Rao, 464 Little Hall, MW: 4th period, F: 2nd period.

Homework, Problems and Exams

Homework will be regularly assigned.
There will be three tests each of 33 points on 2/06, 3/20 and 4/20.

IMPORTANT: ALL TESTS ARE CUMULATIVE.

Grading

Grading scale: A: 90 or above; A-: 87-89; B+: 84-86; B: 80-83; B-: 77-79; C+: 74-76; C: 70-73; C-: 67-69; D+: 64-66; D: 60-63; E: < 60.

ABSOLUTELY NO MAKEUPS WITHOUT MEDICAL DOCUMENTATION.
NO REQUESTS FOR EXTRA CREDITS OR EXTRA ANYTHING.
NO BARGAINING FOR, OR CHANGING OF, GRADES OR POINTS.

Tentative weekly schedule:

1/05-1/09: Reviews of Basics: Probability Conditional Probability, Independence. Sections 1.1,2.2.4
1/12 – 1/16: Standard Distributions, Joint Distributions, Expectations. Sections 2.3.1- 2.3.4.
1/19 – 1/23: Expectations Continued. Sections 2.4.1-2.4.3.
1/26 – 1/30: Joint Distributions, Independance, Variance and Covariance. Sections 2.5.1-2.5.4.
2/02-2/06: Moment Generating Functions. Sections 2.6- 2.9.
2/09-2/13: Conditional Probability and Expectation. 3.1- 3.7.3.
3/16-3/20: Exponential Distribution and The Poisson Process. Sections 5.1-5.3.3.
3/30/4/03: Generalizations of the Poisson Process. Sections 5.4.1-5.5.
4/06-4/20: Continuous Parameter Markov Chains, Queueing Theory, Brownian Motion or Simulation. Chapters 6, 8, 10 or 11.

Teaching Evaluation: Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://evaluations.ufl.edu.

Academic Honesty: The course will be conducted in accordance with the University honor code and academic honesty policy, which can be found in the student guide.

Accommodation for Student with Disabilities: Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

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Students' evaluations of the course: Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results.