

Math/Stat 425 Section 4 (Winter 2008)

Introduction to Probability

Tu/Th 2:30-4:00 in 1372 East Hall

Instructor: Ed Ionides

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Office hours: Tu 10-11; Th 4:15-5:15.

Textbook: S. Ross "A First Course in Probability" (7th edition)

Homework assignments: (25%) weekly, due Tuesdays. No late assignments are accepted. Marks are assigned for showing working as well as getting the correct answer! Discussion of homework problems is encouraged, but solutions must be written up individually. Direct copying, or use of solutions found on the internet or from other sources, is not acceptable.

Tests: (closed book, a single sided page of notes is allowed)

Exam 1 (in class): (20%) Tuesday, February 5

Exam 2 (in class): (20%) Tuesday, March 11

Final (1372 East Hall): (35%) Friday, April 18 4:00 - 6:00

Grading: An approximate guide to grades, based on historical data: A+ 95-100, A 85-95, A- 75-85, B+ 70-75, B 65-70, B- 60-65, C+ 55-60, C 50-55.

Syllabus:

1. Axioms of Probability (Ch. 2.1-2.4, 2.6)
2. Counting and Combinatorics (Ch. 1.1- 1.5, 2.5)
3. Conditional Probability and Independence (Ch. 3)
4. Random Variables, Distributions and Expectation (Ch. 4.1- 4.6)
5. Discrete Distributions (Ch. 4.7- 4.9)
6. Continuous Disributions (Ch. 5)
7. Jointly Distributed Random Variables (Ch. 6)
8. More on Expectation (Ch. 7.1- 7.4)
9. Law of Large Numbers and the Central Limit Theorem (Ch. 8.1- 8.3)

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