Math/Stat 425-004: Introduction to Probability
Tuesdays and Thursdays, 2:30–4:00 p.m. in 1372 East Hall

Instructor: Robert Keener
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Office Hours: Mondays 10:00am–11:30 a.m., Wednesdays 2:30–4:00 p.m.,
Fridays 10:00–11:00 a.m.

Text: A First Course in Probability (Eighth Edition)
Sheldon Ross, Prentice Hall, 2010

Grader: Runlong Tang
269 West Hall
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Office Hours: Mondays, 3:00-5:00 p.m. in 274 West Hall

Assignments: Weekly, due Thursdays. Late assignments are not accepted.

Tests: Two in-class exams and a final exam, all open book.
Exam 1: Thursday, February 10
Exam 2: Thursday, March 24
Final: Thursday, April 28, 1:30–3:30 p.m.

Grading:
Midterm Exams—20% each
Final Exam—35%
Homework Assignments—25% total

SYLLABUS

Axioms of Probability §2.1–2.4, §2.6 (2 lectures)
Counting and Combinatorics §1.1–1.5, §2.5 (3 lectures)
Conditional Probability and Independence Chapter 3 (3 lectures)
Random Variables, Distributions and Expectation §4.1–4.5 (3 lectures)
Important Discrete Distributions §4.6–4.8 (3 lectures)
Continuous Distributions Chapter 5 (4 lectures)
Jointly Distributed Random Variables §6.1–6.3 (4 lectures)
More About Expectation §7.1–7.4, §7.7 (3 lectures)
Law of Large Numbers and the Central Limit Theorem §8.1–8.3 (2 lectures)