

**MATH 3355-4: Probability****Time:** Monday, Wednesday, and Friday 12:40–1:30**Room:** Lockett 240**Prerequisite**

Math 2057 or 2058. Suggested preparation for actuarial exams.

**Textbook**

S. Ross: A First Course in Probability. Seventh Edition, Pearson Prentice Hall, 2006

**Coverage**

The first eight chapters of the textbook will be covered.

1. Combinatorial analysis (1.1–1.5)
2. Axioms of probability (2.1–2.5)
3. Conditional probability and independence (3.1–3.4)
4. Random variables (4.1–4.9)
5. Continuous random variables (5.1–5.6)
6. Jointly distributed random variables (6.1–6.5)
7. Properties of expectation (7.1–7.4, 7.6)
8. Limit theorems (8.1–8.4)

**Grading**

Homework and attendance	120	pts
Three 100-pt exams	300	pts
Final exam	180	pts
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Total score	600	pts

Tentative scale	A	520–600
	B	450–519
	C	380–449
	D	300–379
	F	below 300

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