

Grading

Problem Sets	15 points
Midterms	30 points each
Final exam points	50
Class participation	5 points

Problem Sets

Problem sets will generally be due at the start of class on Thursday. Some of the problems are quite challenging. I encourage you to work together on problem sets in groups of three to four people, but everyone should turn in individual papers, and list on your paper who you worked with. Since doing problems is the best way to prepare for exams, be sure that you clearly understand any parts that you may have gotten help with. **LATE PROBLEM SETS WILL NOT BE ACCEPTED.** The lowest problem set grade will be dropped.

Exams

There will be one or two midterms and a final exam. In exceptional circumstances exams may be taken early, but not late. The final will be cumulative and comprehensive. Exams will be closed book, but you may bring one formula sheet (8 ½ by 11, both sides) for the first midterm, two for the second, and three for the final.

Midterm 1:	Thursday, September 24
Midterm 2:	Tuesday, November 3
Final Exam:	Tuesday, December 15 8-11AM

Course Description and Outline

This is an introductory probability course for students in engineering or ORMS. It focuses mostly on random variables and their applications. An important goal is to strengthen intuition about randomness and variability in the real world. Application examples may include reliability, risk analysis, inventory and logistics, computer communications, service systems, and grid computing. We'll follow the book fairly closely:

Introduction and Combinatorics	Chapter 1
	skip the proofs of the binomial theorem, example 5d, and section 1.6
Probability	Chapter 2 (skip 2.6)
Conditional Probability and Independence	Chapter 3
Discrete Random Variables	Chapter 4
Continuous Random Variables	Chapter 5 (skip 5.6.2-5.6.4)

