

Math 425.3, Introduction to Probability, Winter 2002

- Class Time:** MWF 1-2 in 316 Dennison
Instructor: Dr. Marcin Bownik
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Office: 1830 East Hall
Office Phone: 936-0145
Office Hours: 2-3 Monday and Friday, or by appointment
Textbook: *A First Course in Probability*, by Sheldon Ross, 6th ed., Prentice Hall, 2002
- WARNING:** One section of Math 425 uses a different textbook. If there is a chance that you want to return a text already purchased, do not write your name in it.

- 1. Background and Goals.** This course introduces students to the mathematical theory of probability and its applications. The theory developed together with other mathematical tools such as combinatorics and calculus are applied to everyday problems. Topics include basic results of discrete and continuous probability theory: conditional probability, independent events, random variables, jointly distributed random variables, expectations, variances, covariances, and limit theorems. The course covers most of the first eight chapters of Ross.
- 2. Exams.** There will be two midterm in-class exams on 2/8 and 3/15 and a final exam on 4/22, 4–6pm.
- 3. Homework.** Homework will be assigned each Monday and be due in on the following Monday. No late homework will be accepted. Students may work together and discuss problems with each other, but each student must write up and submit its own set of solutions. All answers should include logical justifications.
- 4. Grading.** The grading distribution will be as follows:

Homework:	25%
Each of the Midterm Exams:	20%
Final Exam:	35%

Tentative Schedule, Math 425.3, Winter 2002

Week	Dates	Monday	Wednesday	Friday
1	1/7-1/11	2.2	2.3-2.4	2.5
2	1/14-1/18	2.5, 2.7	3.2	3.3
3	1/21-1/25	MLK Holiday	3.3-3.4	3.4
4	1/28-2/1	4.1-4.2	4.2-4.3	4.4
5	2/4-2/8	4.5-4.6	4.6-4.7	First Midterm
6	2/11-2/15	4.8-4.9	5.1-5.2	5.2-5.3
7	2/18-2/22	5.4	5.5	5.6
8	2/25-3/1	Winter Break	Winter Break	Winter Break
9	3/4-3/8	5.7	6.1	6.1-6.2
10	3/11-3/15	6.2	6.3	Second Midterm
11	3/18-3/22	6.4	6.5	6.7
12	3/25-3/29	7.1	7.2	7.3
13	4/1-4/5	7.3	7.4	7.4
14	4/8-4/12	7.5	7.6	7.7
15	4/15-4/19	8.2-8.3	8.3-8.4	End of Term
16	4/22	Final Exam		