

Math 180, Spring 2006

Discrete Computational Structures

Instructor: Pavel Grinfeld
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Course Website: <http://www.pages.drexel.edu/~pg/180>

Office Hours:
Will be posted

Textbook:
The textbook is Discrete Mathematics with Graph Theory, by Godaire and Parmenter.

Grading:
Seniors do not take a final exam. For other students, there is an optional final exam. There are two different grading systems depending on whether or not you take the final.

A. No Exam Option:

1. Weekly Quizzes	40%
2. Homework Projects	25%
3. Two 50-minute Exams	35%

B. Exam Option:

1. Weekly Quizzes	40%
2. Homework Projects	20%
3. Two 50-minute Exams	30%
4. Final Exam	10%

Ground Rules:
Unless otherwise announced, the exams and quizzes are all "closed book" with no collaboration permitted. Electronic devices must be pre-approved by me (Typically calculators are OK, and cell phones and laptops are not. But ask before using anything.)

WEEK	TOPIC	READING	PROBLEMS	OTHER
Week 1 April 3- 9	Sets	Chapter 2	2.1: 1,3,5,6,9,11,13 2.2: 1,2,,3,6,7,8 2.3: 3,4,5,12	Quiz 1 Thursday
Week 2 April 10-16	Relations	Sections 2.4 2.5,4.4	2.4: 1,2,4b,9 2.5: 1,2,3 4.4: 1 4.5: 1	Quiz 2 Thursday
Week 3 April 17-23	Voting Systems	TBA	Group Project I	Exam 1 Thursday Group Project I
Week 4 April 24-30	Functions,	Chapter 3 Section 6.3	3.1: 1,4,13,28 3.2: 1,3,5,6a,6b,7,9 3.3: 2,3b,9,20 6.3: 1,7,17,25	Quiz 3 Thursday
Week 5 May 1-7	Combinatorics	Sections 6.1,6,2 7.1-7.2	6.1: 1,9,11 6.2: 3,11,22,20 7.1: 1,3,5,10,11 7.2: 1,2,3,7,10	Quiz 4 Thursday
Week 6 May 8-14	Combinatorics	Sections 7.3-7.5	7.3: 5,7,8,9,13,16,19 7.4: 9,10 7.5: 1-5	Quiz 5 Thursday
Week 7 May 15-21	Analyzing Texas Holdem	TBA	Group Project II	Exam 2 Thursday Group Project II
Week 8 May 22-28	Recurrence Relations	Sections 5.1 5.2 8.4	5.2: 3,4,6 5.3: 2a,2b,3,5,9,12,40,42	Quiz 6 Thursday
Week 9 May 29-June 4	Graphs and Trees	Sections 9.1 9.2,12.1	9.1: 1,6,11 9.2: 2 12.1: 3,7	Memorial Day
Week 10 June 5-11	Decision Trees	TBA	Group Project III	Quiz 8 Thursday Group Project III
Exams	Review			