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Text: James A. Anderson

*Discrete Mathematics with
Combinatorics*, Second Edition

Office Hours: 9-10, 11-12 MWF, 8-12:00 TR

All class members are required to subscribe.

1. Aug 21	Introduction	
2. Aug 23	Truth Tables, Logic, and Proofs	Chapter 1
3. Aug 25		
4. Aug 28		
5. Aug 30	Sets, Boolean Algebra, and Relations	Chapter 2
6. Sep 1		
7. Sep 4	Labor Day	
8. Sep 6		
9. Sep 8	Logic and Proofs	Chapter 3
10. Sep 11		
11. Sep 13		
12. Sep 15		
13. Sep 18	Exam Review	
14. Sep 20	Exam #1	
15. Sep 22		
16. Sep 25	Functions and Matrices	Chapter 4
17. Sep 27		
18. Sep 29		
19. Oct 2		
20. Oct 4		
21. Oct 6	Algorithms, Recursion, and Number Systems	Chapter 5
22. Oct 9		
23. Oct 11		
24. Oct 13	Fall Break	
25. Oct 16		
26. Oct 18	Graphs, Directed Graphs, and Trees	Chapter 6
27. Oct 20		
28. Oct 23		
29. Oct 25	Review for Exam #2	
30. Oct 27	Exam #2	
31. Oct 30		
32. Nov 1		
33. Nov 3	Counting and Probability	Chapter 8
34. Nov 6		
35. Nov 8		
36. Nov 10		
37. Nov 13	Graphs and Trees Revisited	Chapters 14 & 15
38. Nov 15		
39. Nov 17		
40. Nov 20		
41. Nov 22	Thanksgiving	
42. Nov 24	Thanksgiving	
43. Nov 27	Miscellaneous Topics	
44. Nov 29		
45. Dec 1		
46. Dec 4	Review for Final	
Final Exam:	Saturday Dec 9, 9:00-11:00 PM (Rogers 210)	

Course Objectives

By the time you have finished with this course, you should be familiar many of the basic mathematical structures used in computer science. You should know how to prove a simple theorem, and be able to solve a number of different mathematical problems. More specifically:

1. You will be able to use truth tables and Boolean algebra to examine propositions, and equivalent statements.
2. You will understand basic set theory and how it applies to the mathematics of computing.
3. You be able to demonstrate basic concepts of proofs.
4. You will understand the binary, octal, decimal, and hexadecimal number systems as they apply to computing.
6. You know how graphs, directed graphs, and trees are used in computing.
7. You will understand the basic principles of counting and probability.

Grading

Final Exam: 35%

Homework: 15%

Other Exams: 50% -- Equally divided among all exams.

Other Information

Exam grades will be curved, if necessary – but it probably won't be necessary.

University attendance policy will be enforced.

You are expected to attend every class. If you are unable to attend a particular class, you are still responsible for the material covered in the class. You must make arrangements to obtain this material from another student. Lectures will not be repeated.

The class blog is located at URL <http://csi2350.petermmaurer.com> All information regarding this class will be distributed through this blog. If I post something on this blog I will expect that you have seen it. You can subscribe through E-Mail or through RSS. Make sure if you use E-Mail that it is an address you check at least once a day. If you use an RSS feed, make sure your reader is running all the time and is uncluttered enough that you won't miss anything.

Do not leave early!

Do not come late!

I have an open door policy with respect to students. I'm in my office most of the time. I am willing to meet with you any time I am in my office. Feel free to come to me with any matter that is troubling you, even if it has nothing to do with the class.