

CS W3203 DISCRETE MATH

LECTURE PLAN

subject to changes

Date	#	Content
19-Jan	1	Propositions and Truth Tables §1.1, §1.2
21-Jan	2	Predicates and Quantifiers §1.3, §1.4
26-Jan	3	Rules of Inference §1.5
28-Jan	4	Proof Strategy § 1.6,1.7; Functions §2.3 SELF-STUDY: Sets & Set operations §2.1,2.2
2-Feb	5	Sequences and summations §2.4; Algorithms §3.1
4-Feb	6	Growth of Functions §3.2; Complexity of Algorithms §3.3
9-Feb	7	The Integers and Divisibility §3.4; Primes and GCD's §3.5
11-Feb	8	Integers and Algorithms §3.6; Appl of Number Theory §3.7 self-study: Matrices §3.8
16-Feb		Midterm Review: TA s handle the class
18-Feb		Midterm 1: covers Ch 1-3 or Lec 1-8
23-Feb	9	Mathematical Induction §§4.1,4.2
25-Feb	10	Recursive Definitions §4.3; Recursive Algorithms §4.4
2-Mar	11	Basic Counting §5.1; Pigeonholing §5.2
4-Mar	12	Perms and Combs §5.3; Binomial Coefficients §5.4
9-Mar	13	Generalized Perms and Combins §5.5; Counting Partitions §5.9
11-Mar	14	Intro to Probability §6.1, start §6.2
16-Mar		Spring Break
18-Mar		Spring Break
23-Mar	15	Conditional Probability §6.2, Bayes' Theorem §6.3
25-Mar	16	Expectations and Variance §6.4
30-Mar	17	Solving Recurrence Relations §§7.1,7.2
1-Apr	18	Generating Functions §7.4
6-Apr	19	Relations §§8.1,8.3, 8.4
8-Apr	20	Equivalence Relations §8.5; Partial Orderings §8.6
13-Apr		Midterm 2 – Covers Ch4-7 or Lec 9-18
15-Apr	21	Graphs and Their Representations §9.1, §9.2
20-Apr	22	Graph Isomorphism and Connectivity §9.3,§9.4
22-Apr	23	Traversability §9.5, Graph Planarity §9.7
27-Apr	24	Finish Planarity and Graph Colorings §9.8
29-Apr		CLASS CANCELLED
5th May		Review Session- Room 501 Schermerhorn
11-May		Final Exam (emphasizes 8,9)- Everything from 2nd midterm onwards