

San Jose State University
Department of Mathematics, College of Science
Fall 2009
MATH 42, Discrete Mathematics, section 1
MW 9:00 – 10:15, MH 323
CALENDAR

DATE	DUE	TOPIC	SECTION COVERED
Aug 24		Introduction	
Aug 26		propositional logic and equivalences	1.1 & 1.2
Aug 31	hw1	predicates and quantifiers, nested quantifiers	1.3 & 1.4
Sept 2	hw2	rules of inferences	1.5
Sept 9		introduction to proofs	1.6
Sept 14	hw3	sets & set operations	2.1 & 2.2
Sept 16		functions	2.3
Sept 21	hw4	sequences and summations	2.4
Sept 23		test 1	1.1–1.6, 2.1–2.4
Sept 28		integers and division	3.4
Sept 30	hw5	primes and GCD	3.5
Oct 5		more primes and GCD	3.5
Oct 7		integers and algorithms	3.6
Oct 12	hw6	mathematical induction	4.1
Oct 14		more mathematical induction	4.1
Oct 21	hw7	basics of counting	5.1
Oct 26		pigeonhole principle	5.2
Oct 28	hw8	permutation and combinations	5.3
Nov 2		test 2	3.4–3.6, 4.1, 5.1–5.3
Nov 4		discrete probability theory	6.1 & 6.2
Nov 9		Bayes' Theorem	6.3
Nov 16	hw9	relations and their properties	8.1
Nov 18		equivalence relations	8.5
Nov 23		more equivalence relations	8.5
Nov 25	hw10 & hw11	boolean functions	11.1
Nov 30		representing boolean functions	11.2
Dec 2		test 3	6.1–6.3, 8.1, 8.5, 11.1–11.2
Dec 7		Review	
Dec 14 (M)		final (7:15–9:30)	comprehensive