MATH 321 COURSE SCHEDULE Spring 2006 (Please note that adjustments may be made during the semester.)
THE HOMEWORK ALWAYS INCLUDES READING THE SECTIONS OF THE TEXT WHICH WERE COVERED IN CLASS THAT WEEK. It wouldn't hurt to read ahead a little bit, also.

Date	**Chapter**	**Topics**	**Practice Exercises**
2 Feb	1.6	sets: notation, membership, subsets, cardinality, power sets, Cartesian product	1,3,5,9,11,13,15,19,21
	1.7	set operations: union, intersection, subtraction, membership tables, bit strings	1,3,7,11,15,17,19,21,41,45c,45d
9 Feb	1.1	logic: propositions, truth value, negation, notation, converse, contrapositive, inverse, truth tables, bit strings	1,3,5,7,21,23,27,33
	1.2	propositional equivalences: truth tables, tautologies	1,3,5,7,13,15,17
16 Feb	10.1	Boolean functions: notation, values, proof of identities/equalities	1,3,7,11,23,25,31,37
	10.2	representing Boolean functions: sum-of products expansion	1,3,5,7
23 Feb	*Hwk 1*	*is due tonight.*	
	10.3	logic gates: notation, design, use of half- and full-adders	1,3,5,7,9
	10.4	minimization of circuits: K-maps	1,3,5,7,13,21
2 Mar	*Hwk 10a*	*is due tonight.*	
	Test 1	**chapters 1 & 10.1-.2**	
	2.1	algorithms	1,3,11,13,15,17,19,21
	2.3	complexity of algorithms	1,3,7,9,11,13
	2.4	integers and division: division, primes, division algorithm, gcd, mod, cryptology	1,5,7,9,11,13,19,29a-e,37,39,53
9 Mar	2.5	integers and algorithms: binary, hexadecimal, mod exponentiation, Euclidean algorithm	1,3,5,11,19,21,23,25 (#20 will be on next week's worksheet)
	2.6	number theory: RSA encryption	46 and worksheet on encryption
16 Mar	*Hwk 10b*	*is due tonight.*	
	3.1	proof strategy	1,3,5,7
	3.2	sequences and summations	1,3a, 3b, 5a, 5b, 5d, 5e,7,13,17
30 Mar	*Hwk 2*	*is due tonight.*	
	Test 2	**chapters 10.3-.4 & 2.1-.6**	
	3.4	recursive definitions	1,3,7,9,13,23 & function worksheet
	3.5	recursive algorithms	1,3,5,7,21
6 Apr	8.1	introduction to graphs	1,3,5,7,13,17,19
	8.2	graph terminology (skip "isolated", "pendant" & "Q" stuff in homework exercises)	1,3,5,13,25a-c,27,29,33,39 for #33 keep all vertices for subgraphs
	8.3	graph isomorphism	1,5,9a,9d,9e,10,13,15,17,22,35,41
13 Apr	*Hwk 3*	*is due tonight.*	
	8.4	connectivity	1,3,5
	8.6	shortest path problems	1,3,5(graph 3 only),7,9,11
20 Apr	*Hwk 8a*	*is due tonight.*	
	Test 3	**on chapter 3 & 8.1-.2, plus previous**	
	9.1	introduction to trees	1,3,5,9,17,19,21,23
	9.2	applications of trees	1,3,5,19,21
27 Apr	*no class*		
4 May	*Hwk 8b*	*is due tonight.*	
	review	everything	
11 May	*Hwk 9*	*is due tonight.*	
	Final	**on chapters 8.3-.6 & 9.1-.2, plus comprehensive**	
18 May	snow date	used if necessary	