Group Theory - MATH 3175 - 03 - CRN 38818, 9:15 am - 10:20 am, MWR, Forsyth Building 150

Day	Date	Class	Section	HW
M	Jan.6	1	1.1 Divisors	6(a,b), 8, 10, 11
W	Jan.8	2	1.2 Primes	1(a,c), 12, 14, 15
Th	Jan.9	3	1.3 Congruences	3, 18, 19, 20, 27
			1.4 Integers modulo n	3(a,b), 9, 15, 25, 29, 31
M	Jan.13	4	2.1 Functions	2, 5, 9(a-c), 10(a), 11, 12, 15, 16, 18, 20
W	Jan.15	5	2.3 Permutations & *PracticeQuiz1* & *PQ1Sol*	1(a,e), 4 a, 8, 10, 11, 12, 17
Th	Jan.16	6	**Quiz 1** & 2.3 Permutations	1(a,e), 4 a, 8, 10, 11, 12, 17
M	Jan.20	-	Martin Luther King Day	
W	Jan.22	7	3.1 Definition of a group	2, 3, 8, 14, 15, 19, 24, 28, 29
Th	Jan.23	8	3.2 Subgroups	1,3,5(a,b),7,11,12,14,15,16,19,21,24,28,29
M	Jan.27	9	3.3 Examples	1, 2, 9, 10, 11, 12
W	Jan.29	10	3.4 Isomorphisms & *PracticeQuiz2* & *PQ2Sol*	1, 2, 4, 7, 9, 11, 15, 19, 21, 22, 30, 31, 32
Th	Jan.30	11	**Quiz 2** & 3.4 Isomorphisms	1, 2, 4, 7, 9, 11, 15, 19, 21, 22, 30, 31, 32
M	Feb.3	12	3.5 Cyclic Groups	2, 3, 5, 6, 10, 12, 16, 20
W	Feb.5	13	3.5 Cyclic Groups	2, 3, 5, 6, 10, 12, 16, 20
Th	Feb.6	14	3.6 Permutation Groups	1, 6, 7, 8, 9, 16, 17, 19, 20, 23, 28
M	Feb.10	15	3.6 Permutation Groups	1, 6, 7, 8, 9, 16, 17, 19, 20, 23, 28
W	Feb.12	16	3.7 Homomorphisms & *PracticeQuiz3* & *PQ3Sol*	3, 4, 5, 9, 10, 15, 17, 18, 21, 22
Th	Feb.13	17	**Quiz 3** & 3.7 Homomorphisms	3, 4, 5, 9, 10, 15, 17, 18, 21, 22
M	Feb.17	-	President's Day	
W	Feb.19	18	3.8 Normal Subgroups, Factor Groups	1, 2, 3, 6, 10, 12, 13,19, 20, 21, 22
Th	Feb.20	19	3.8 Normal Subgroups, Factor Groups	1, 2, 3, 6, 10, 12, 13,19, 20, 21, 22
M	Feb.24	20	7.1 Isomorphism Theorems	1, 2, 3, 4, 5, 10, 12, 13, 18, 20
W	Feb.26	21	7.1 Automorphisms & *PracticeQuiz4* & *PQ4Sol*	1, 2, 3, 4, 5, 10, 12, 13, 18, 20
Th	Feb.27	22	**Quiz 4** & 7.1 Isom. Thms, Autom.	1, 2, 3, 4, 5, 10, 12, 13, 18, 20
M	Mar.2	-		
W	Mar.4	-		
Th	Mar.5	-		
M	Mar.9	23	7.2 Conjugacy	3,4,5,6,7,8,13,14,15,16,17,19,23,24,25
W	Mar.11	24	7.2 Conjugacy	3,4,5,6,7,8,13,14,15,16,17,19,23,24,25
Th	Mar.12	25	7.3 Groups Acting on Sets	2, 5, 6, 7, 8, 9, 11, 12, 13, 15, 16
M	Mar.16	26	7.4 Sylow theorems	1, 10, 14, 15, 19, 22, 24, 26
W	Mar.18	27	7.4 Sylow theorems & *PracticeQuiz5* & *PQ5Sol*	1, 10, 14, 15, 19, 22, 24, 26
Th	Mar.19	28	**Quiz 5** & FiniteInternal/ExternalDirectProd.	
M	Mar.23	29	7.5 Finite Abelian Groups,	1, 2, 3(a,b), 6(a,b), 17, 18
W	Mar.25	30	7.5 Finite Abelian Groups,	1, 2, 3(a,b), 6(a,b), 17, 18
Th	Mar.26	31	7.5 Groups Small Order	11, 12
M	Mar.30	32	7.7 Simple Groups	1, 2, 3, 5
W	Apr.1	33	*PracticeQuiz6* & *PQ6Solutions*	
Th	Apr.2	34	**Quiz 6**	
M	Apr.6	35	Selected Topics	
W	Apr.8	36	Selected Topics	
Th	Apr.9	37	Review *F19FinalReview*	*F18MTH3175GroupTheoryFinal*
M	Apr.13	38	Review *F18.final-exam-M*	*F16MTH3175GroupTheoryFinalPractice*
W	Apr.15	-	Reading day	
Th-F	Apr.16-24		**FINAL EXAMS**	