

Daily Schedule for MATH 4120-141
Summer I (online) 2020

May

Monday	Tuesday	Wednesday	Thursday	Friday
	(77:18) 12 Lectures 1.1—1.3 Groups, Cayley graphs & lots of examples	(81:08) 13 Lectures 1.4—2.1 Group presentations, cyclic & abelian gps	(56:64) 14 Lectures 2.2—2.4 Dihedral, alternating, & symmetric groups	(46:54) 15 Lectures 3.1—3.3 Subgroups, cosets, & normal subgroups
		HW 1 due		HW 2 due
(63:54) 18 Lectures 3.4—3.5 Products & quotients <i>Last day to drop</i>	(62:05) 19 Lectures 3.6—3.7 Normalizers & conjugacy classes	(47:18) 20 Lecture 4.1 Homomorphisms & isomorphisms	(64:24) 21 Lectures 4.2—4.3 Kernels & the fundamental homom. theorem	(24:47) 22 Lecture 4.4 Finitely generated abelian groups
HW 3 due		HW 4 due		HW 5 due
25 <i>No class: Holiday</i>	(46:19) 26 Lecture 4.5 The isomorphism theorems & commutators.	(TBD) 27 Lectures 4.6—4.7 Automorphisms & semidirect products.	(60:16) 28 Lectures 5.1—5.2 Group actions & the orbit-stabilizer theorem.	(44:05) 29 Lecture 5.3 Examples of group actions.
	HW 6 due	MIDTERM 1		HW 7 due

June

Monday	Tuesday	Wednesday	Thursday	Friday
(36:13) 1 Lectures 5.4—5.5 Cauchy's theorem & p-groups	(48:37) 2 Lecture 5.6 The Sylow theorems	(36:34) 3 Lecture 5.7 Finite simple groups	(62:15) 4 Lectures 6.1—6.2 Fields, extensions, & automorphisms	(38:21) 5 Lectures 6.3 Polynomials and irreducibility
HW 8 due		HW 9 due	<i>Last drop: No W</i>	HW 10 due
(34:13) 8 Lecture 6.4 Galois groups	(57:57) 9 Lectures 6.5—6.6 The fundamental theorem of Galois theory	(39:58) 10 Lectures 6.7—6.8 Ruler & compass constructions	(66:56) 11 Lectures 7.1—7.2 Rings, ideals, quotients, & finite fields.	(45:53) 12 Lecture 7.3 Ring homomorphisms
	HW 11 due	MIDTERM 2		HW 12 due
(69:47) 15 Lectures 7.4—7.5 Divisibility, factorization, & Euclidean rings	(TBA) 16 Lectures 7.6—7.7 Rings of fractions & the Chinese remainder thm	17	18	
HW 13 due		<i>Study Day</i>	FINAL EXAM	
			HW 14 due	