

**Daily Schedule for MATH 4120-141**  
Summer I (online) 2017

**May**

Monday	Tuesday	Wednesday	Thursday	Friday
		(77:18) 17 Lectures 1.1—1.3 Groups, Cayley graphs & lots of examples	(81:08) 18 Lectures 1.4—2.1 Group presentations, cyclic & abelian gps	(56:64) 19 Lectures 2.2—2.4 Dihedral, alternating, & symmetric groups
			HW 1 due	HW 2 due
(46:54) 22 Lectures 3.1—3.3 Subgroups, cosets, & normal subgroups <i>Last day to drop</i> HW 3 due	(63:54) 23 Lectures 3.4—3.5 Products & quotients	(62:05) 24 Lectures 3.6—3.7 Normalizers & conjugacy classes	(47:18) 25 Lecture 4.1 Homomorphisms & isomorphisms	64:24) 26 Lectures 4.2—4.3 Kernels & the fundamental homom. theorem
		HW 4 due		HW 5 due
(24:47) 29 Lecture 4.4 Finitely generated abelian groups	(46:19) 30 Lecture 4.5 The isomorphism theorems & commutators.  HW 6 due	(TBD) 31 Lectures 4.6—4.7 Automorphisms & semidirect products.  MIDTERM 1	(60:16) 1 Lectures 5.1—5.2 Group actions & the orbit-stabilizer theorem.	(44:05) 2 Lecture 5.3 Examples of group actions.  HW 7 due

**June**

Monday	Tuesday	Wednesday	Thursday	Friday
(36:13) 5 Lectures 5.4—5.5 Cauchy's theorem & p-groups  HW 8 due	(48:37) 6 Lecture 5.6 The Sylow theorems	(36:34) 7 Lecture 5.7 Finite simple groups  HW 9 due	(62:15) 8 Lectures 6.1—6.2 Fields, extensions, & automorphisms  <i>Last drop: No W</i>	(38:21) 9 Lectures 6.3 Polynomials and irreducibility  HW 10 due
(34:13) 12 Lecture 6.4 Galois groups	(57:57) 13 Lectures 6.5—6.6 The fundamental theorem of Galois theory  HW 11 due	(39:58) 14 Lectures 6.7—6.8 Ruler & compass constructions  MIDTERM 2	(66:56) 15 Lectures 7.1—7.2 Rings, ideals, quotients, & finite fields.	(45:53) 16 Lecture 7.3 Ring homomorphisms  HW 12 due
(69:47) 19 Lectures 7.4—7.5 Divisibility, factorization, & Euclidean rings  HW 13 due	(TBA) 20 Lectures 7.6—7.7 Rings of fractions & the Chinese remainder thm	21  <i>Study Day</i>	22  FINAL EXAM  HW 14 due	