Daily Schedule for MATH 4120-141

Summer I (online) 2018

May

Monday	Tuesday	Wednesday	Thursday	Friday
	(77:18) **15** **Lectures 1.1—1.3** Groups, Cayley graphs & lots of examples	(81:08) **16** **Lectures 1.4—2.1** Group presentations, cyclic & abelian gps HW 1 due	(56:64) **17** **Lectures 2.2—2.4** Dihedral, alternating, & symmetric groups	(46:54) **18** **Lectures 3.1—3.3** Subgroups, cosets, & normal subgroups HW 2 due
(63:54) **21** **Lectures 3.4—3.5** Products & quotients *Last day to drop* HW 3 due	(62:05) **22** **Lectures 3.6—3.7** Normalizers & conjugacy classes	(47:18) **23** **Lecture 4.1** Homomorphisms & isomorphisms HW 4 due	(64:24) **24** **Lectures 4.2—4.3** Kernels & the fundamental homom. theorem	(24:47) **25** **Lecture 4.4** Finitely generated abelian groups HW 5 due
28 *No class: Holiday*	(46:19) **29** **Lecture 4.5** The isomorphism theorems & commutators. HW 6 due	(TBD) **30** **Lectures 4.6—4.7** Automorphisms & semidirect products. **MIDTERM 1**	(60:16) **31** **Lectures 5.1—5.2** Group actions & the orbit-stabilizer theorem.	(44:05) **1** **Lecture 5.3** Examples of group actions. HW 7 due

June

Monday	Tuesday	Wednesday	Thursday	Friday
(36:13) **4** **Lectures 5.4—5.5** Cauchy's theorem & p-groups HW 8 due	(48:37) **5** **Lecture 5.6** The Sylow theorems	(36:34) **6** **Lecture 5.7** Finite simple groups HW 9 due	(62:15) **7** **Lectures 6.1—6.2** Fields, extensions, & automorphisms *Last drop: No W*	(38:21) **8** **Lectures 6.3** Polynomials and irreducibility HW 10 due
(34:13) **11** **Lecture 6.4** Galois groups	(57:57) **12** **Lectures 6.5—6.6** The fundamental theorem of Galois theory HW 11 due	(39:58) **13** **Lectures 6.7—6.8** Ruler & compass constructions **MIDTERM 2**	(66:56) **14** **Lectures 7.1—7.2** Rings, ideals, quotients, & finite fields.	(45:53) **15** **Lecture 7.3** Ring homomorphisms HW 12 due
(69:47) **18** **Lectures 7.4—7.5** Divisibility, factorization, & Euclidean rings HW 13 due	(TBA) **19** **Lectures 7.6—7.7** Rings of fractions & the Chinese remainder thm	**20** *Study Day*	**21** **FINAL EXAM** HW 14 due	

Comments to: macaule@clemson.edu
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