## Tentative Daily Schedule for MATH 4120-141 Summer I (online) 2016

## May

Monday	Tuesday	Wednesday	Thursday	Friday
•	_	(77:18) <b>11</b>	(81:08) <b>12</b>	(56:64) 13
		Lectures 1.1—1.3	Lectures 1.4—2.1	Lectures 2.2—2.4
		Groups, Cayley	Group	Dihedral,
		graphs & lots of	presentations,	alternating, &
		examples	cyclic & abelian gps	symmetric groups
			HW 1 due	HW 2 due
(46:54) <b>16</b>	(63:54) 17	(62:05) <b>18</b>	(47:18) <b>19</b>	64:24) <b>20</b>
Lectures 3.1—3.3	Lectures 3.4—3.5	Lectures 3.6—3.7	Lecture 4.1	Lectures 4.2—4.3
Subgroups,	Products &	Normalizers &	Homomorphisms &	Kernels & the
cosets, & normal	quotients	conjugacy classes	isomorphisms	fundamental
subgroups				homom. theorem
Last day to drop				
HW 3 due		HW 4 due		HW 5 due
(24:47) <b>23</b>	(46:19) <b>24</b>	(TBD) <b>25</b>	(60:16) <b>26</b>	(44:05) <b>27</b>
Lecture 4.4	Lecture 4.5	Lectures 4.6—4.7	Lectures 5.1—5.2	Lecture 5.3
Finitely generated	The isomorphism	Automorphisms &	Group actions & the	Examples of
abelian groups	theorems &	semidirect	orbit-stabilizer	group actions.
	commutators.	products.	theorem.	
LIMA O dese		MIDTERM 4		1.11/4/ 7 -1
HW 6 due	(40.07)	MIDTERM 1	(00.45)	HW 7 due
(36:13) <b>30</b>	(48:37) <b>31</b>	(36:34) 1	(62:15) <b>2</b>	( /
Lectures 5.4—5.5	Lecture 5.6	Lecture 5.7	Lectures 6.1—6.2	Lectures 6.3
Cauchy's theorem	The Sylow	Finite simple	Fields, extensions,	Polynomials and
& p-groups	theorems	groups	& automorphisms	irreducibility
104/0-1		LIM O duo	Loot dram; No 14/	LIW 10 due
HW 8 due		HW 9 due	Last drop: No W	HW 10 due

## June

Monday	Tuesday	Wednesday	Thursday	Friday
(34:13) 6	(57:57) <b>7</b>	(39:58) 8	(66:56) 9	(45:53) <b>10</b>
Lecture 6.4	Lectures 6.5—6.6	Lectures 6.7—6.8	Lectures 7.1—7.2	Lecture 7.3
Galois groups	The fundamental	Ruler & compass	Rings, ideals,	Ring
	theorem of Galois	constructions	quotients, & finite	homomorphisms
	theory		fields.	·
	HW 11 due	MIDTERM 2		HW 12 due
(69:47) 13	(TBA) <b>14</b>	15	16	17
Lectures 7.4—7.5	Lectures 7.6—7.7			
Divisibility,	Rings of fractions			FINAL EXAM
factorization, &	& the Chinese			
Euclidean rings	remainder thm			
HW 13 due			HW 14 due	

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