M431, Spring 2014

Monday	Wednesday	Friday
Jan 13th 1	15th 2	17th 3
Discussion of prerequisites Classes Begin	Ch.12	Ch. 12
20th	22nd 4	24th 5
Martin Luther King Day no class	Ch. 13	Ch. 13 HW1 due
27th 6	29th 7	31st 8
Ch. 13 Ch. 14 - defns, examples	Ch. 14 - factor rings, constructing fields	Ch. 14 - more factor ring examples HW2 due
Feb 3rd 9 Ch. 14 - prime, max ideals	5th 10 Ch. 14 - prime, max ideals	7th 11 Ch. 15 - homomorphisms, defns, examples
10th 12	12th 13	14th 14
Test 1 HW3 due	Ch. 15 - examples, 1st isom theorem	-BLIZZARD-
17th 15 Ch. 15 - 1st isom theorem, fields of quotients	19th 16 Ch. 16 - the division algorithm	21st
24th 18	26th 19	28th 20
Ch. 17 - defns, $Z[x]$	Ch. 17 - mod p test, Eisenstein's	Ch. 17 - when is $\langle f(x) \rangle$ max
Mar 3rd 21	5th 22	7th 23
Ch. 17 - constructing fields, dice app	Ch. 18 - defns, examples, FLT	Test 2 HW5 due
10th	12th	14th
Spring Break	Spring Break	Spring Break
17th 24	19th 25	21st 26
-SNOW DAY-	Ch. 18 - UFDs, PID implies UFD	Ch. 19 - lin alg review
24th 27	26th 28	28th 29
Ch. 19 Ch. 20 - fund. theorem	Ch. 20 - examples, splitting fields	Ch. 20 - splitting fields, examples, $F(a) \cong F[x]/\langle p(x) \rangle$ HW6 due
31st 30	Apr 2nd 31	4th 32
Ch. 20 - uniqueness, $f'(x)$ Ch. 21 - defns	Ch. 21 - finite implies algebraic, tower rule	Ch. 21 - tower rule proof
7th 33	9th 34	11th 35
Ch. 21 - $F(a,b) = F(c)$ HW7 due	Ch. 22 - existence, structure of finite fields	Ch. 22 - subfields, examples
14th 36	16th 37	18th 38
Ch. 32 - automorphisms of fields	Test 3 HW8 due	Ch. 32 - automorphisms of fields
21st 39	23rd 40	25th 41
Ch. 32 - automorphisms of fields Deelan and Traymon	Ch. 32 - a more sophisticated example Jacob, Lacey, Rachel	Ch. 32 - s. f. of $x^3 - 2$ Ryan and Philip
28th 42 Ch. 32 - s. f. of $x^4 - 2$	30th 43 Ch. 32 - Galois theory	May 2nd 44 No Class
Chris and Denise	Greg and Kirill	1.5 01000
5th 45	7th 46	9th 47
Final Exam 10:30am-12:30pm HW9 due		