

Tentative Semester Plan, Math 302, Fall 2015

Mon	Wed	Fri
Sep 7, 2015	Sep 9, 2015	Sep 11, 2015
Labor Day	1.1 A Short Note on Proofs	1.2 Sets and Equivalence Relations
Sep 14, 2015	Sep 16, 2015	Sep 18, 2015
3.1 Integer Equivalence Classes and Symmetries	3.2 Groups: Definitions and Examples	3.3 Subgroups (Quiz 1)
Sep 21, 2015	Sep 23, 2015	Sep 25, 2015
4.1 Cyclic Subgroups	4.2 The Multiplicative Group of Complex Numbers	5.1 Permutation Groups: Definitions and Notation
Sep 28, 2015	Sep 30, 2015	Oct 2, 2015
5.2 Dihedral Groups	6.1 Cosets	Exam 1
Oct 5, 2015	Oct 7, 2015	Oct 9, 2015
6.2 Lagrange's Theorem	6.3 Fermat's and Euler's Theorems	9.1 Isomorphisms: Definitions and Examples
Oct 12, 2015	Oct 14, 2015	Oct 16, 2015
9.2 Direct Products	10.1 Normal Subgroups and Factor Groups	11.1 Group Homomorphisms (Quiz 2)
Oct 19, 2015	Oct 21, 2015	Oct 23, 2015
11.2 The Isomorphism Theorems	12.1 Matrix Groups	Fall Break
Oct 26, 2015	Oct 28, 2015	Oct 30, 2015
12.2 Symmetry	15.1 The Sylow Theorems	Exam 2
Nov 2, 2015	Nov 4, 2015	Nov 6, 2015
15.2 Examples and Applications	16.1, 6.2 Rings, Integral Domains, Fields	16.3 Ring Homomorphisms, Ideals
Nov 9, 2015	Nov 11, 2015	Nov 13, 2015
16.4 Maximal and Prime Ideals	17.1, 17.2 Polynomial Rings, The Division Algorithm	17.3 Irreducible Polynomials (Quiz 3)
Nov 16, 2015	Nov 18, 2015	Nov 20, 2015
20.1, 20.2 Vector Spaces: Definitions and Examples, Subspaces	20.3 Linear Independence	21.1 Extension Fields
Nov 23, 2015	Nov 25, 2015	Nov 27, 2015
Exam 3	Out of Class Project: 14.1 Groups Acting on Sets	Thanksgiving Break
Nov 30, 2015	Dec 2, 2015	Dec 4, 2015
21.2 Splitting Fields	23.1 Field Automorphisms	23.2 The Fundamental Theorem (Quiz 4)
Dec 7, 2015	Dec 9, 2015	Dec 11, 2015
<i>Special Topics</i>	<i>Special Topics</i>	<i>Special Topics</i>
Dec 14, 2015	Dec 16, 2015	Dec 18, 2015
<i>Special Topics</i>	Study Day	

Final Exam: 8:00-10:00 am Thurs Dec 17