

Abstract Algebra, Spring 2015, Unit 2 Plan

| Mon | Wed | Fri |
|--|---|---|
| Mar 9, 2015 | Mar 11, 2015 | Mar 13, 2015 |
| A.1 Functions, A.2 Equivalence Relations W A2: 16 D 4.1: 1, 2, 3, 4 R 4.1 (p 141-143), 4.2, RQ | 4.1 Congruence-I W 4.1.14 D 4.1: 16, (21), 4.2: 25, 26 R 4.3 up to p 160, RQ | 4.1-II CRT, 4.2 Public Key Codes W 4.2.27 D 4.3: 31, 32, 40, 42(i) R 4.3 p160-164, RQ |
| Mar 16, 2015 | Mar 18, 2015 | Mar 20, 2015 |
| 4.3 Commutative Rings-I W 4.3.54(i) D 4.3: 42(ii)(iii), 45, 47, 55 R 4.3 (finish), RQ | 4.3 Commutative Rings-II W 4.3.44 D 4.3: 56, 57, 58*, 60(i), 64 R 5.1, RQ | 4.3 Commutative Rings-III W 4.3.59 D 5.1: 1, 2*, 5, 6 R 5.2, RQ |
| Mar 23, 2015 | Mar 25, 2015 | Mar 27, 2015 |
| 5.1 Domains and Fraction Fields W 5.1.3* D 5.2: 9, 10, 26, 28, (17) R 5.3 up to p 216, RQ | 5.2 Polynomials W 5.2.14 D 5.3: 29, 33, 34 R 5.3 (finish), RQ | 5.3 Homomorphisms-I W 5.3.31(i) D 5.3: 43, 45*, 47, 48 R 6.1 up to p 239, RQ |
| Mar 30, 2015 | Apr 1, 2015 | Apr 3, 2015 |
| Spring Break | Spring Break | Spring Break |
| Apr 6, 2015 | Apr 8, 2015 | Apr 10, 2015 |
| Easter Monday <i>No class</i> | 5.3 Homomorphisms-II W 5.3.50 D 6.1: 1*, 2, 3, 7 R 6.1 p 239-248, RQ | 6.1 Parallels to \mathbb{Z} -I W 6.1.6 D 6.1: 17(i)*, 23*, 24 R 6.1 (finish), RQ |
| Apr 13, 2015 | Apr 15, 2015 | Apr 17, 2015 |
| 6.1 Parallels to \mathbb{Z} -II W 6.1.19 Prepare for exam | Exam 2 D 6.1: 25, 30*, 32(i)(ii) R 6.2, RQ | 6.1 Parallels to \mathbb{Z} -III W 6.1.26* D 6.2: 35, 40(i)*, 49(i) R 7.1, RQ |

*An asterisk next to a problem indicates that I have modified the problem or provided a hint. (A problem in parentheses is a challenge problem. Make sure you understand the other problems before attempting the challenge problems.)