

Abstract Algebra, Spring 2015, Unit 1 Plan

Mon	Wed	Fri
Feb 2, 2015	Feb 4, 2015	Feb 6, 2015
Intro to course Discuss RQ 1.1 <i>For next class:</i> D 1.1: 2, 4(i)(ii), 8, 11, 12, 14 R 1.2 p 7-13, RQ	1.1 Ancient Mathematics <i>For next class:</i> W 1.1.10 D 1.2: 21, 22*, 26 R 1.2 (finish), RQ	1.2 Diophantus-I <i>For next class:</i> W 1.2.27 D 1.2: 31*, 32, 33* R 1.3 up to p 28, RQ
Feb 9, 2015	Feb 11, 2015	Feb 13, 2015
1.2 Diophantus-II W 1.2.36 D 1.3: 38, 41*, 44, 46, Thm 19 R 1.3 (finish), RQ	1.3 Euclid-I W 1.3.49* D 1.3: 55(ii), 56, 57, 60 R 1.4, RQ	1.3 Euclid-II Quiz 1 (Divisibility) <i>Last day to drop w/o W</i> W 1.3.58 D 1.4: 68, 69, 76 R 2.1 (up to p 52), RQ
Feb 16, 2015	Feb 18, 2015	Feb 20, 2015
1.4 Nine Fundamental Properties W 1.4.71 D 2.1: 1, 3, 4*, 7 R 2.1 (up to p 59), RQ	2.1-I Induction W 2.1.8* D 2.1: 12*, 13, 14, 15-W R 2.2, RQ	2.1-II Unique Factorization W 2.1.15 D 2.2: 22, 24, 25 R 3.1, RQ
Feb 23, 2015	Feb 25, 2015	Feb 27, 2015
2.2 Binomial Theorem W 2.2.32 D 3.1: 2, 14, 15, (17) R 3.2 (up to p 97), RQ	3.1 Classical Formulas Quiz 2 (Unique Factorization) W 3.1.3 D 3.2: 21, 22, 23, 27 R 3.2, RQ	3.2 Complex Numbers-I W 3.2.26 D 3.2: 35, 39*, 40, 41 R 3.3 & 3.4 p 116-121, RQ
Mar 2, 2015	Mar 4, 2015	Mar 6, 2015
3.2 Complex Numbers-II W 3.2.42* D 3.3 & 3.4: 50, 52, 71, 73 R A.1, A.2, RQ	3.3 Roots and Powers & 3.4 Gaussian and Eisenstein Integers W 3.3.56 Prepare for exam	Exam 1 D A.1: 7, 8, A.2: 15, (17) R 4.1, up to p 140, 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.)