

Unit 2 Plan, Fall 2023

Tues	Thurs
Sep 19, 2023	Sep 21, 2023
Exam 1 (4.3-5.2) <i>Exam will be 65 minutes; we'll have a 5 minute break, and then a 10 minute preview of 5.3.</i>	5.3-I, Homomorphisms (p 206-216) Due today: • W 5.2: 14 • D 5.3-I: 29, 33, 34 • Read 5.3-II, RQ 5.3-II
Sep 26, 2023	Sep 28, 2023
Service Day	5.3-II, Kernel, Image, Ideals (p 216-220) Due today: • W 5.3: 31-i • D 5.3-II: 45*, 47, 48, 50-i • Read, RQ
Oct 3, 2023	Oct 5, 2023
6.1-I Divisibility, Units, Associates (p 233-234) Quiz 3 (5.3-I) Due today: • W 5.3-II: 50-ii • D 6.1-I: 1*, 3, 7, 10 • Read 6.1-II, RQ 6.1-II	Fall Break
Oct 10, 2023	Oct 12, 2023
6.1-II, Irreducibility, Roots, Factors (p 234-242) Due today: • W 6.1-I: 6* • D 6.1-II: 2, 29, 30* (need to flip ahead, but okay) • Read 6.1-III, RQ 6.1-III	6.1-III GCDs, Euclid's Lemma, Euclidean Algorithm (p 243-251 + notes) Due today: • W 6.1-II: 19 • D 6.1-III: EE1, EE2, 17-i*, 13-i*, 13-ii* • Read 6.1-IV, RQ 6.1-IV
Oct 17, 2023	Oct 19, 2023
6.1-IV, Unique Factorization, PIDs, UFDs (p 252-258) Due today: • W 6.1-III: 23* • D 6.1-IV: 25, 32-i, 32-ii, EE3 • Read 6.2-I, RQ 6.2-I	6.2-I, Irreducibility (p 259-263) Quiz 4 (6.1-I & II) Due today: • W 6.1-III: 26* • D 6.2-I: EE1, 35, 43 • Read 6.2-II + notes, RQ 6.2-II
Oct 24, 2023	Oct 26, 2023
6.2-II, Roots of Unity (p 264-268 + notes) Due today: • W 6.2-I: 42* • D 6.2-II: EE2, 50*, 51, 3.56* (p 116) • Read 7.1, RQ 7.1	7.1, Quotient Rings Due today: • W 6.2-II: 52 • D 7.1: 2, 4-i, 4-ii, 4-iii, 4-iv, 7, 14-i • Read 7.2-I, RQ 7.2-I
Oct 31, 2023	Nov 2, 2023
Exam 2 (5.3-6.2) <i>Exam will be 65 minutes; we'll have a 5 minute break, and then a 10 minute preview of 7.2.</i>	7.2-I, Field Characteristic, Extension Fields (p 287-292) Due today: • W 7.1: 12* • D 7.2-I: 27, 29 • Read 7.2-II, RQ 7.2-II

*An asterisk next to a problem indicates that I have modified the problem or provided a hint. EE stands for "Extra Exercise." See the "Corrections and Modifications" document. (A problem in parentheses is a challenge problem. Make sure you understand the other problems before attempting the challenge problems.)