Abstract Algebra (Math 470) Fall 2022 Schedule

MW 4 pm to 5:15 pm in Markstein Hall

Text: Contemporary Abstract Algebra 9th Edition by Joseph A. Gallian

August September 2022 October						October ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	Aug. 29 First Day of Classes Introductions and expectations What is Abstract Algebra?	Aug. 30	Aug. 31 Ch. 0: Preliminaries	1	2	3
4	5 Labor Day, no class	6	7 Ch. 1: Intro to Groups. Examples	8	9 Homework 1 Due	10
11	12 Ch. 2: Groups. Elementary Properties	13	14 Ch. 2: Groups. Elementary Properties	15	16	17
18	19 Ch. 2: Groups. Elementary Properties	20	21 Ch. 3: Finite Groups; Subgroups	22	23 Homework 2 Due	24
25	26 Quiz 1 Ch. 3: Finite Groups; Subgroups	27	28 Ch. 4: Cyclic Groups	29	30	

✓ September	October 2022					November ►
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	Sept. 26 Quiz 1 Ch. 3: Finite Groups; Subgroups	Sept. 27	Sept. 28 Ch. 4: Cyclic Groups	Sept. 29	Sept. 30	1
2	3 Ch. 5: Permutation Groups	4	5 Ch. 6: Isomorphisms (and a bit about Homomorphisms)	6	7 Homework 3 Due	8
9	10 Ch. 6: Isomorphisms (and a bit about Homomorphisms)	11	12 Ch. 7: Cosets and Lagrange's Theorem	13	14	15
16	17 Ch. 7: Cosets and Lagrange's Theorem	18	19 Ch. 8: External Direct Products	20	21 Homework 4 Due	22
23	24 Quiz 2 Ch. 9: Normal Subgroups and Factor Groups (Quotient Groups)	25	26 Ch. 9: Normal Subgroups and Factor Groups (Quotient Groups)	27	28	29
30	31 Ch. 10: Group Homomorphisms					

October	November 2022 Decer					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	Oct. 31 Ch. 10: Group Homomorphisms	1	2 Ch. 10: Group Homomorphisms and Statement of the Fundamental Theorem of Finite Abelian Groups	3	4 Homework 5 Due	5
6	7 Primary Source Project: Holder's Quotient Group Concept	8	9 Primary Source Project: Holder's Quotient Group Concept	10	11 Veterans Day, no class	12
13	14 Ch. 12: Introduction to Rings	15	16 Ch. 12: Introduction to Rings	17	18 Homework 6 Due	19
20	21 Quiz 3 Ch. 13: Integral Domains	22	23 Ch. 14: Ideals and Factor Rings (Quotient Rings)	24 Thanksgiving holiday, no class	25 Thanksgiving holiday, no class	26
27	28 Ch. 14: Ideals and Factor Rings (Quotient Rings)	29	30 Ch. 15: Ring Homomorphisms			

■ November			December 2022			January ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	Nov. 28 Ch. 14: Ideals and Factor Rings (Quotient Rings)	Nov. 29	Nov. 30 Ch. 15: Ring Homomorphisms	1	2 Homework 7 Due	3
4	5 Ch. 16: Polynomial Rings	6	7 Ch. 16: Polynomial Rings	8	9 Homework 8 Due Last day of classes	10
11	12 Final Exam 4-6 pm in Markstein Hall 208	13	14	15	16	17
18	19	20	21	22 Grades due from instructors	23	24
25	26	27	28	29	30	31

Possible Grading Scheme

	0
Homework	25%
Primary Source Project	15%
Quiz 1	10%
Quiz 2	15%
Quiz 3	15%
Final	20%

A possible final Primary Source Project is an option: <u>Dedekind and the Creation of Ideals</u>