

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

September 2022						
◀ August						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 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 Due	24
25	26 Quiz 1 Ch. 3: Finite Groups; Subgroups	27	28 Ch. 4: Cyclic Groups	29	30	

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

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

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

Possible Grading Scheme

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: [Dedekind and the Creation of Ideals](#)