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 ►

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**	**10**
11 Homework 1 Due	**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**	**24**
25 Homework 2 Due	**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	8
9 Homework 3 Due	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	22
23 Homework 4 Due	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

December ►

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	5
6 Homework 5 Due	7 Primary Source Project: Holder's Quotient Group Concept	8	9 Primary Source Project: Holder's Quotient Group Concept	10	11 Veterans Day	12
13	14 Ch. 12: Introduction to Rings	15	16 Ch. 12: Introduction to Rings	17	18	19
20 Homework 6 Due	21 Quiz 3 Ch. 13: Integral Domains	22	23 Ch. 14: Ideals and Factor Rings (Quotient Rings)	24 Thanksgiving holiday	25 Thanksgiving holiday	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	3
4 Homework 7 Due	5 Ch. 16: Polynomial Rings	6	7 Ch. 16: Polynomial Rings	8	9 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

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