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

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	

October 2022

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					

November 2022

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 **Primary Source Project 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			

December 2022

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%