Math 470: Abstract Algebra
Spring 2023 Schedule
MW 4 pm to 5:15 pm in Academic Hall 201
Text: Contemporary Abstract Algebra 9th Edition by Joseph A. Gallian

January 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23 **Semester Starts**	24 **First Class: Introduction and Expectations** **What is Abstract Algebra?** **Preliminaries**	25	26 **Ch. 1: Intro to Groups. Examples**	27	28
29 Homework 0 Due at 11:59 pm on Gradescope.	30	31 **Ch. 2: Groups. Elementary Properties.**				

February 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	**2** Ch. 2: Groups. Elementary Properties. Ch. 3: Finite Groups, Subgroups	**3**	**4**
5 Homework 1 Due at 11:59 pm on Gradescope.	**6**	**7** Ch. 3: Finite Groups, Subgroups Ch. 4: Cyclic Groups	**8**	**9** Ch. 4: Cyclic Groups Ch. 5: Permutation Groups	**10**	**11**
12	**13**	**14** Quiz 1 Ch. 5: Permutation Groups	**15**	**16** Ch. 6: Isomorphisms/ Homomorphisms	**17**	**18**
19 Homework 2 Due at 11:59 pm on Gradescope.	**20**	**21** Ch. 6: Isomorphisms/ Homomorphisms Ch. 7: Cosets and Lagrange's Theorem	**22**	**23** Ch. 7: Cosets and Lagrange's Theorem	**24**	**25**
26	**27**	**28** Ch. 7: Cosets and Lagrange's Theorem Ch. 8: External Direct Products				

March 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	**2** Ch. 8: External Direct Products	**3**	**4**
5 Homework 3 Due at 11:59 pm on Gradescope.	**6**	**7 Quiz 2** Ch. 9: Normal Subgroups and Factor Groups (Quotient Groups)	**8**	**9** Ch. 9: Normal Subgroups and Factor Groups (Quotient Groups)	**10**	**11**
12	**13**	**14** Ch. 9: Normal Subgroups and Factor Groups (Quotient Groups) Ch. 10: Group Homomorphisms	**15**	**16** Ch. 10: Group Homomorphisms	**17**	**18**
19 Spring Break	**20 Spring Break**	**21 Spring Break**	**22 Spring Break**	**23 Spring Break**	**24 Spring Break**	**25 Spring Break**
26 Homework 4 Due at 11:59 pm on Gradescope.	**27**	**28 Primary Source Project: Holder's Quotient Group Concept**	**29**	**30 Primary Source Project: Holder's Quotient Group Concept**	**31 Cesar Chavez Day-Campus Closed**	

April 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	**3**	**4** **Quiz 3** **Ch. 11: The Fundamental Theorem of Finite Abelian Groups**	**5**	**6** **Ch. 12: Introduction to Rings**	**7**	**8**
9 Homework 5 Due at 11:59 pm on Gradescope.	**10** **Primary Source Project Due at 11:59 pm on Gradescope.**	**11** **Ch. 12: Introduction to Rings**	**12**	**13** **Ch. 13: Integral Domains**	**14**	**15**
16	**17**	**18** **Ch. 14: Ideals and Factor Rings (Quotient Rings)**	**19**	**20** **Ch. 14: Ideals and Factor Rings (Quotient Rings)**	**21**	**22**
23 Homework 6 Due at 11:59 pm on Gradescope.	**24**	**25** **Quiz 4** **Ch. 15: Ring Homomorphisms**	**26**	**27** **Ch. 15: Ring Homomorphisms**	**28**	**29**
30						

May 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	**2** Ch. 16: Polynomial Rings	**3**	**4** Ch. 16: Polynomial Rings	**5**	**6**
7 Homework 7 Due at 11:59 pm on Gradescope.	**8**	**9** Ch. 17: Factorization of Polynomials	**10**	**11** Ch. 17: Factorization of Polynomials	**12**	**13**
14	**15**	**16** Final Exam 6:15pm to 8:15pm Academic Hall 201	**17**	**18**	**19**	**20**
21	**22**	**23**	**24**	**25**	**26**	**27**
28	**29**	**30**	**31**			