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

◄ December

January 2023

February ►

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.				

◄ January

February 2023

March ►

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. 5: Permutation Groups Ch. 6: Isomorphisms/ Homomorphisms	17	18
19 Homework 2 Due at 11:59 pm on Gradescope.	20	21 Ch. 6: Isomorphisms/ Homomorphisms	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				

◄ February

March 2023

April ►

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	

◄ March

April 2023

May ►

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 **Reid Lecture 6-7pm** (Extra credit for attendance)	7	8
9	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 Homework 5 Due at 11:59 pm on Gradescope.	17	18 Ch. 14: Ideals and Factor Rings (Quotient Rings)	19	20 Ch. 14: Ideals and Factor Rings (Quotient Rings)	21	22
23	24	25 **Quiz 4** Ch. 15: Ring Homomorphisms	26	27 Ch. 15: Ring Homomorphisms	28	29
30						

◄ April

May 2023

June ►

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2 Ch. 16: Polynomial Rings	3	4 Ch. 16: Polynomial Rings	5	6
7 Homework 6 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			