

AUGUST 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
	1	2	3	4	5	6	
7	8	9	10	11	12	13	
14	15	16	<i>First Day of Class</i> 17 Review of Set Operations and the Basics of Logic	18	The Principle of Mathematical Induction and the Division Algorithm <i>Quiz: Set Operations and the Basics of Logic</i>	19 20	
21	The Integers Modulo n and Rigid Motions <i>Quiz: the Principle of Mathematical Induction and the Division Algorithm</i>	22	23	Groups (Definitions and Examples) <i>Quiz: the Integers Modulo n and Rigid Motions</i>	24	Groups (Basic Properties and Subgroups) <i>Quiz: Groups (Definitions and Examples)</i>	25 26 27
28	Cyclic Groups <i>Quiz: Groups (Basic Properties and Subgroups)</i>	29	30	Complex Numbers as a Group Under Multiplication <i>Quiz: Cyclic Groups</i>	31		

SEPTEMBER 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	The Symmetric Group on n Letters Quiz: Complex Numbers as a Group Under Multiplication	2 3
4	<i>Labor Day</i> 5	6	Dihedral Groups 7 Quiz: the Symmetric Group on n Letters	8	Cosets and Lagrange's Theorem Quiz: Dihedral Groups	9 10
11	Quotient Groups and Normal Subgroups 12 Quiz: Cosets and Lagrange's Theorem	13	Group Homomorphisms and Cayley's Theorem 14 Quiz: Quotient Groups and Normal Subgroups	15	The Group Isomorphism Theorems 16 Quiz: Group Homomorphisms and Cayley's Theorem	17
18	External and Internal Direct Products 19 Quiz: The Group Isomorphism Theorems	20	Finite Abelian Groups 21 Quiz: External and Internal Direct Products	22	Finitely Generated Abelian Groups and the Smith Normal Form 23 Quiz: Finite Abelian Groups	24
25	Group Actions and the Class Equation 26 Quiz: Finitely Generated Abelian Groups and Smith Normal Form	27	Sylow's Theorems 28 Quiz: Group Actions and the Class Equation	29	Sylow's Theorems (Applications) 30 Quiz: Sylow's Theorems	1

OCTOBER 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2	Exam I Review 3 <i>Quiz: Sylow's Theorems (Applications)</i>	4	Exam I 5	6	<i>Fall Break</i> 7	8
9	Rings, Ring Homomorphisms, Ideals, and Quotient Rings 10	11	The Ring Isomorphism Theorems 12 <i>Quiz: Rings, Ring Homomorphisms, Ideals, and Quotient Rings</i>	13	Integral Domains, Fields, and Prime and Maximal Ideals 14 <i>Quiz: the Ring Isomorphism Theorems</i>	15
16	The Chinese Remainder Theorem 17 <i>Quiz: Integral Domains, Fields, and Prime and Maximal Ideals</i>	18	Extension, Contraction, and Oka Families 19 <i>Quiz: The Chinese Remainder Theorem</i>	20	Polynomial Rings and Polynomial Long Division 21 <i>Quiz: Extension, Contraction, and Oka Families</i>	22
23	Irreducibility of Polynomials 24 <i>Quiz: Polynomial Rings and Polynomial Long Division</i>	25	Euclidean Domains 26 <i>Quiz: Irreducibility of Polynomials</i>	27	Principal Ideal Domains (PIDs) 28 <i>Quiz: Euclidean Domains</i>	29
30	Unique Factorization Domains (UFDs) 31 <i>Quiz: Principal Ideal Domains (PIDs)</i>					

NOVEMBER 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY			
		1	Polynomial Rings over UFDs <i>Quiz: Unique Factorization Domains (UFDs)</i>	2	3	Fields of Fractions and Localization <i>Quiz: Polynomial Rings over UFDs</i>	4	5	
6	Exam II Review <i>Quiz: Fields of Fractions and Localization</i>	7	8	Exam II	9	10	Roots of Polynomials and Field Extensions	11	12
13	Finite Extensions <i>Quiz: Roots of Polynomials and Field Extensions</i>	14	15	Splitting Fields of Polynomials and Algebraic Closure <i>Quiz: Finite Extensions</i>	16	17	Finite Fields <i>Quiz: Splitting Fields of Polynomials and Algebraic Closure</i>	18	19
20	Separable Extensions <i>Quiz: Finite Fields</i>	21	22	<i>Thanksgiving Break</i>	23	24	<i>Thanksgiving Break</i>	25	26
27	Field Automorphisms <i>Quiz: Separable Extensions</i>	28	29	The Galois Group <i>Quiz: Field Automorphisms</i>	30				

DECEMBER 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2 The Fundamental Theorem of Galois Quiz: the Galois Group	3
4	<i>Final Exam Week</i> 5	<i>Final Exam Week</i> 6	<i>Final Exam Week</i> 7	<i>Final Exam Week</i> 8	Final Exam 9 1:00 to 4:00 PM	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31