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*	*First Day of Class* *17* Review of Set Operations and the Basics of Logic	*18*	The Principle of Mathematical Induction and the Division Algorithm *19* Quiz: Set Operations and the Basics of Logic	*20*
21	The Integers Modulo n and Rigid Motions *22* Quiz: the Principle of Mathematical Induction and the Division Algorithm	*23*	Groups (Definitions and Examples) *24* Quiz: the Integers Modulo n and Rigid Motions	*25*	Groups (Basic Properties and Subgroups) *26* Quiz: Groups (Definitions and Examples)	*27*
28	Cyclic Groups *29* Quiz: Groups (Basic Properties and Subgroups)	*30*	Complex Numbers as a Group Under Multiplication *31* Quiz: Groups (Basic Properties and Subgroups)			

September
2022

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

October
2022

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

November
2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	Polynomial Rings over UFDs *2* Quiz: Unique Factorization Domains (UFDs)	*3*	Fields of Fractions and Localization *4* Quiz: Polynomial Rings over UFDs	*5*
6	Exam II Review *7* Quiz: Fields of Fractions and Localization	*8*	**Exam II** *9*	*10*	Roots of Polynomials and Field Extensions *11*	*12*
13	Finite Extensions *14* Quiz: Roots of Polynomials and Field Extensions	*15*	Splitting Fields of Polynomials and Algebraic Closure *16* Quiz: Finite Extensions	*17*	Finite Fields *18* Quiz: Splitting Fields of Polynomials and Algebraic Closure	*19*
20	Separable Extensions *21* Quiz: Finite Fields	*22*	*Thanksgiving Break* *23*	*24*	*Thanksgiving Break* *25*	*26*
27	Field Automorphisms *28* Quiz: Separable Extensions	*29*	The Galois Group *30* Quiz: Field Automorphisms			

December
2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	The Fundamental Theorem of Galois *2* Quiz: the Galois Group	*3*
4	*Final Exam Week 5*	*Final Exam Week 6*	*Final Exam Week 7*	*Final Exam Week 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*