

Week	Date	Meeting Number	Calendar for 2022-23 Fall Semester MATH 3070/5070 Number Theory (Barsamian)	QX
1	Mon Aug 22	1	Section 1.1 Variables	
	Wed Aug 24	2	2.1 Logical form and Logical Equivalence	
	Fri Aug 26	3	2.2 Conditional Statements	
2	Mon Aug 29	4	2.3 Valid and Invalid Arguments	Q01
	Wed Aug 31	5	3.1 Predicates and Quantified Statements I	
	Fri Sep 2	6	3.2 Predicates and Quantified Statements II	
3	Mon Sep 5		Labor Day Holiday: No Class	
	Wed Sep 7	7	3.3 Statements Containing Multiple Quantifiers	Q02
	Fri Sep 9	8	3.4 Arguments with Quantified Statements	
4	Mon Sep 12	9	Exam 1 Covering Chapters 2,3	X1
	Wed Sep 14	10	4th Edition Section 4.1 Direct Proof and Counterexample I: Introduction	
	Fri Sep 16	11	4th Edition Section 4.1 Direct Proof and Counterexample I: Introduction	
5	Mon Sep 19	12	4th Edition Section 4.1 Direct Proof and Counterexample I: Introduction	
	Wed Sep 21	13	4th Edition Section 4.2 Direct Proof and Counterexample II: Rational Numbers	Q03
	Fri Sep 23	14	4th Edition Section 4.2 Direct Proof and Counterexample II: Rational Numbers	
6	Mon Sep 26	15	4th Edition Section 4.3 Direct Proof and Counterexample III: Divisibility	
	Wed Sep 28	16	4th Edition Section 4.3 Direct Proof and Counterexample III: Divisibility	Q04
	Fri Sep 30		Fall Break: No Class	
7	Mon Oct 3	17	4th Edition Section 4.4 Direct Proof and Counterexample IV: Division into Cases	
	Wed Oct 5	18	4th Edition Section 4.4 Direct Proof and Counterexample IV: Division into Cases	Q05
	Fri Oct 7	19	4th Edition Section 4.6 Indirect Argument	
8	Mon Oct 10	20	4th Edition Section 4.6 Indirect Argument	
	Wed Oct 12	21	4th Edition Section 4.7 Indirect Argument: Two Famous Theorems needed for infinitude of primes	Q06
	Fri Oct 14	22	4th Edition Section 4.8 Application: Algorithms for Division Algorithm, GCD, Euclidean Algorithm	
9	Mon Oct 17	23	4th Edition Section 4.8 Application: Algorithms for Division Algorithm, GCD, Euclidean Algorithm	
	Wed Oct 19	24	Exam 2 Covering Chapter 4	X2
	Fri Oct 21	25	5.1 Sequences and Summation Notation	
10	Mon Oct 24	26	5.1 Product Notation, Factorial, n choose r	
	Wed Oct 26	27	5.2 Mathematical Induction I	Q07
	Fri Oct 28	28	5.2 Mathematical Induction I	
11	Mon Oct 31	29	5.3 Mathematical Induction II	
	Wed Nov 2	30	5.3 Mathematical Induction II	Q08
	Fri Nov 4	31	5.4 Strong Mathematical Induction	
12	Mon Nov 7	32	Exam 3 Covering Chapter 5	X3
	Wed Nov 9	33	1.2 and 1.3 Intro to Sets and Relations	
	Fri Nov 11		Veterans Day Holiday: No Class	
13	Mon Nov 14	34	8.1 Relations on sets	
	Wed Nov 16	35	8.2 Reflexivity, Symmetry, Transitivity	
	Fri Nov 18	36	8.3 Equivalence Relations	Q09
14	Mon Nov 21	37	8.4 Modular Arithmetic with Applications to Cryptography	
	Wed Nov 23		Thanksgiving Break: No Class	
	Fri Nov 25		Thanksgiving Break: No Class	
15	Mon Nov 28	38	8.4 Modular Arithmetic with Applications to Cryptography	
	Wed Nov 30	39	8.4 Modular Arithmetic with Applications to Cryptography	Q10
	Fri Dec 2	40	8.4 Modular Arithmetic with Applications to Cryptography	
16	Mon Dec 5		Final Exam 10:10am - 12:10pm in Morton 218	FX