

# JANUARY

## 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	Communicating Mathematics 25	26	Sets and Subsets 27	28
29	Set Operations 30 Quiz: Syllabus	31				

# FEBRUARY

## 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			Indexed Collections of Sets 1	2	Partitions and Cartesian Products 3 Quiz: Sets and Set Operations	4
5	Relations and Properties of Relations 6 Quiz: Collections, Partitions, and Products of Sets	7	Equivalence Relations 8 Homework 1 Due	9	The Integers Modulo $n$ 10 Quiz: Relations	11
12	Functions 13 Quiz: the Integers Modulo $n$	14	Bijjective Functions 15	16	Composition and Inversion of Functions 17 Quiz: Functions	18
19	Exam 1 Review 20 Quiz: Bijjective Functions	21	Exam 1 22	23	Statements 24	25
26	Negation, Disjunction, and Conjunction 27 Quiz: Statements	28				

# MARCH

## 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			Implications 1 Homework 2 Due	2	Biconditionals, Tautologies, and Contradictions 3 Quiz: Negation, Disjunction, and Conjunction	4
5	Logical Equivalence 6 Quiz: Implications	7	Quantified Statements 8	9	Direct Proofs 10 Quiz: Quantified Statements	11
12	Spring Break 13	Spring Break 14	Spring Break 15	Spring Break 16	Spring Break 17	18
19	Proof by Contrapositive 20 Quiz: Direct Proofs	21	Proof by Cases 22 Homework 3 Due	23	Counterexamples 24 Quiz: Proof by Contrapositive	25
26	Proof by Contradiction 27 Quiz: Proof by Cases	28	Review of Three Proof Techniques 29	30	Existence Proofs 31 Quiz: Proof by Contradiction	1

# APRIL

## 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2	Exam 2 Review 3 Quiz: Existence Proofs	4	Exam 2 5 Homework 4 Due	6	Religious Observance 7	8
9	Proofs Involving Divisibility of Integers 10	11	The Principle of Mathematical Induction 12	13	The Strong Principle of Mathematical Induction 14 Quiz: Divisibility Properties	15
16	The Division Algorithm 17 Quiz: the Principle of Mathematical Induction	18	Scholars Symposium 19	20	Proofs Involving Sets 21 Quiz: the Division Algorithm Homework 5 Due	22
23	Fundamental Properties of Set Operations 24 Quiz: Proofs Involving Sets	25	Proofs Involving Real Numbers 26	27	Limits and Continuity of Functions 28 Quiz: Proofs Involving Real Numbers	29
30						

# MAY

## 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	Exam 3 Review 1 Quiz: Limits and Continuity	2	Exam 3 Review 3	4	Exam 3 5 Homework 6 Due	6
7	Final Exam Review 8	9	Final Exam Review 10	11	Final Exam Review 12	13
14	Final Exam Week 15 Final Exam 8:00 to 11:00 AM Homework 7 Due	Final Exam Week 16	Final Exam Week 17	Final Exam Week 18	Final Exam Week 19	20
21	22	23	24	25	26	27
28	29	30	31			