Week		Content	Reading	Written Assignments	Written Assignments Due Dates
week 1	Tuesday, January 21, 2025	Course policies, the Scheme Programming Language	Syllabus (on Canvas) Install & Familiarize Yourself with Scheme	Note: lab & WebAssign homework is not listed in this table	
	Thursday, January 23, 2025	Propositional Logic, Truth Tables	Epp 2.1		
Week 2	Tuesday, January 28, 2025	Equivalences, Laws of Propositional Logic	Epp 2.1	PS1 Out	
	Thursday, January 30, 2025	Conditionals, DNFs, CNFs, Satisfiability	Epp 2.2		
Week 3	Tuesday, February 4, 2025	Laws of Inferece with Propositions	Epp 2.3	PS2 Out	PS1 Due Mon, 2/3, 11:59pm
	Thursday, February 6, 2025	First Order Logic: Predicates and Quantifiers	Epp 3.1		
Week 4	Tuesday, February 11, 2025	Free Variables, Negation of Quantified Statements Multiply Quantified Statements	Epp 3.2 - 3.3	PS3 Out	PS2 Due Mon, 2/11, 11:59pm
	Thursday, February 13, 2025	Laws of Inference with Quantifiers	Epp 3.4		
Week 5	Tuesday, February 18, 2025	Monday Schedule (No Class)			
	Thursday, February 20, 2025	Sets, Cartesian Producs	Epp 1.2, 6.1		PS3 Due Fri, 2/21, 11:59pm
Week 6	Tuesday, February 25, 2025	Set Operations, Set Identities	Epp 6.2	PS4 Out	
	Thursday, February 27, 2025	Functions: Injective, Surjective, Bijective	Epp 7.1 - 7.2		
Week 7	Tuesday, March 4, 2025	Floor & Ceiling Functions, Countable Sets	Epp 4.6, 7.4	PS5 Out	PS4 Due Mon, 3/3, 11:59pm
	Thursday, March 6, 2025	Uncountuable Sets, Cantor's Hierarchy	Epp 7.4		
Week 8	Tuesday, March 11, 2025	REVIEW (if time permits) (Lecture: Countability Problems, Labs: Other Problems)			PS5 Due Mon, 3/10, 11:59pm
	Thursday, March 13, 2025	MIDTERM EXAM			
Week 9	Tuesday, March 18, 2025	SPRING BREAK			
	Thursday, March 20, 2025				
Week 10	Tuesday, March 25, 2025	Relations: Basic Properties	Epp 1.3 (warm-up) 8.1 -- 8.3	PS6 Out	
	Thursday, March 27, 2025	Induction	Epp 5.2, 5.3		
Week 11	Tuesday, April 1, 2025	Strong Induction	Epp 5.4	PS7 Out	PS6 Due Mon, 3/31, 11:59pm
	Thursday, April 3, 2025	Peano + Review: Division Theorem, Prime Numbers Unique Factorization	Epp 4.4, 4.5, 4.8		
Week 12	Tuesday, April 8, 2025	Number Theory: Modular Arithmetic GCDs, Euclid Algorithm	Epp 8.4	PS8 Out	PS7 Due Mon, 4/7, 11:59pm
	Thursday, April 10, 2025	Congruences, Fermat's Little Theorem, Euler Totient Function	Epp 8.4		
Week 13	Tuesday, April 15, 2025	Chinese Remaindering Theorem Introduction to Cryptography	Epp 8.4		
	Thursday, April 17, 2025	Public Key Cryptosystem: RSA	Epp 8.4		PS8 Due Fri, 4/18, 11:59pm
Week 14	Tuesday, April 22, 2025	Graphs, Walks, Paths, Cycles	Epp 10.1	PS9 Out	
	Thursday, April 24, 2025	Connectivity, Eulerian Circuits Hamiltonian Paths	Epp 10.1		
Week 15	Tuesday, April 29, 2025	Trees & Their Properties	Epp 10.4	PS10 Out	PS9 Due Mon, 4/28, 11:59pm
	Thursday, May 1, 2025	Binary Trees, Tree Traversals	Epp 10.5		
Week 16	Tuesday, May 6, 2025	REVIEW (if time permits)			PS10 Due Mon 5/5, 11:59pm
	Wednesday, May 7, 2025 3:00pm & 4:30pm Burchard 111	FINAL EXAM			