Week		Content	Reading	HW Assigned	HW Due
week1	Thursday, January 18, 2024	Course policies, the Scheme Programming Language	Syllabus (Canvas) Install & (Re) Familiarize Yourself with Scheme		
week 2	Tuesday, January 23, 2024	Propositional Logic, Truth Tables	zyBooks 1.1 - 1.3 Rosen 1.1 - 1.2	PS1 Out	
	Thursday, January 25, 2024	Equivalences, Laws of Propositional Logic	zyBooks 1.4 - 1.5 Rosen 1.3		
week 3	Tuesday, January 30, 2024	Conditionals, DNFs, CNFs, Satisfiability	zyBooks 1.4 - 1.5 Rosen 1.3	PS2 Out	PS1 Due Tue, 1/30, 11:59pm
	Thursday, February 1, 2024	First Order Logic: Predicates and Quantifiers	zyBooks 1.6 - 1.7 Rosen 1.4		
week 4	Tuesday, February 6, 2024	Free Variables, Negation of Quantified Statements Multiply Quantified Statements	zyBooks 1.8 - 1.10 Rosen 1.5		
	Thursday, February 8, 2024	Laws of Inferece with Propositions	zyBooks 1.12 Rosen 1.6	PS3 Out (2/10)	PS2 Due Fri, 2/9, 11:59pm
week 5	Tuesday, February 13, 2024	Snow Day/No Class			
	Thursday, February 15, 2024	Laws of Inference with Quantifiers	zyBooks 1.13 Rosen 1.6	PS4 Out (2/19)	PS3 Due Sun, 2/18, 11:59pm
week 6	Tuesday, February 20, 2024	Sets, Set Operations	zyBooks 3.1 - 3.4 Rosen 2.1 - 2.2		
	Thursday, February 22, 2024	Set Identities, Cartesian Products	zyBooks 3.5- 3.6 Rosen 2.1 - 2.2		
week 7	Tuesday, February 27, 2024	Functions: Injective, Surjective, Bijective Floor & Ceililng Functions	zyBooks 4.1 - 4.3 Rosen 2.3	PS5 Out (2/27)	PS4 Due Mon, 2/26, 11:59pm
	Thursday, February 29, 2024	Countable & Uncountable Sets	Rosen 2.5		
week 8	Tuesday, March 5, 2024	Exercises on Countable and Uncountable Sets	Rosen 2.5		PS5 Due Tue, 3/5, 11:59pm
	Thursday, March 7, 2024	MIDTERM EXAM			
week 9	Tuesday, March 12, 2024	SPRING BREAK			
	Thursday, March 14, 2024				
week 10	Tuesday, March 19, 2024	Relations: Basic Properties	zyBooks 6.1 - 6.3 Rosen 9.1 - 9.3	PS6 Out	
	Thursday, March 21, 2024	Induction	zyBooks 8.1, 8.3 - 8.4 Rosen 5.1		
week 11	Tuesday, March 26, 2024	Induction II, Strong Induction	Rosen 5.2	PS7 Out	PS6 Due Tue, 3/26, 11:59pm
	Thursday, March 28, 2024	Peano Axioms, Division Theorem, Prime Numbers, Unique Factorization	zyBooks 9.1 - 9.2 Rosen 4.1, 4.3		
week 12	Tuesday, April 2, 2024	Modular Arithmetic, GCDs, Euclid's Algorithm	zyBooks 9.3 - 9.5 Rosen 4.3		
	Thursday, April 4, 2024	Bezout's Theorem, Extended Euclid's Algorithm, Multiplicative Inverses	zyBooks 9.5 Rosen 4.3-4.4	PS8 Out	PS7 Due Thu 4/4, 11:59pm
week 13	Tuesday, April 9, 2024	Solving Congruences, Fermat's Theorem, Euler's Totient Function & Theorem	Rosen 4.4		
	Thursday, April 11, 2024	Chinese Reminder Theorem, Public Key Cryptosystem: RSA	zyBooks 9.8 - 9.9, Rosen 4.4, 4.6	PS9 Out	PS8 Due Fri, 4/13, 11:59pm
week 14	Tuesday, April 16, 2024	Graphs and Their Representations	zyBooks 13.1 - 13.3 Rosen 10.1 - 10.3		
	Thursday, April 18, 2024	Connectivity, Cycles, Eulerian Circuits Hamiltonian Paths	zyBooks 13.4 - 13.6 Rosen 10.4 - 10.5		PS9 Due Sat, 4/21, 11:59pm
week 15	Tuesday, April 23, 2024	Directed Acyclic Graphs, Topological Order	zyBooks 6.8	PS10 Out	
	Thursday, April 25, 2024	Trees & Their Properties m-Ary Trees	zyBooks 14.1 - 14.4 Rosen 11.1 - 11.3		
	Tuesday, April 30, 2024	Review on Trees	zyBooks 14.4 Rosen 11.3		PS10 Due Mon 4/29, 11:59pm
	Wednesday, May 1, 2024	FINAL EXAM	Burchard 111	3:00pm - 4:15pm 4:30pm - 6:00pm	
	Thursday, May 2, 2024	Friday Class Schedule NO CLASS			