

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 Inference with Propositions	zyBooks 1.12 Rosen 1.6	PS3 Out	PS2 Due Thu, 2/8, 11:59pm
week 5	Tuesday, February 13, 2024	Laws of Inference with Quantifiers	zyBooks 1.13 Rosen 1.6		
	Thursday, February 15, 2024	Sets	zyBooks 3.1 - 3.2 Rosen 2.1	PS4 Out	PS3 Due Thu, 2/15, 11:59pm
week 6	Tuesday, February 20, 2024	Set Operations, Set Identities	zyBooks 3.3- 3.5 Rosen 2.2		
	Thursday, February 22, 2024	Cartesian Products, Functions: Injective, Surjective, Bijective	zyBooks 3.6, 4.1 - 4.3 Rosen 2.2 - 2.3		PS4 Due Sat, 2/24, 11:59pm
week 7	Tuesday, February 27, 2024	Floor & Ceiling Functions, Countable Sets	zyBooks 4.2 Rosen 2.3, Rosen 2.5	PS5 Out	
	Thursday, February 29, 2024	Uncountable Sets, Cantor's Hierarchy	Rosen 2.5		
week 8	Tuesday, March 5, 2024	REVIEW (Lecture: Countability Problems, Labs: Other Problems)			PS5 Due Wed, 3/6, 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	Number Theory: Introduction, Peano, Division Theorem, Modular Arithmetic	zyBooks 9.1 - 9.2 Rosen 4.1 - 4.2	PS7 Out	PS6 Due Tue, 3/26, 11:59pm
	Thursday, March 28, 2024	Prime Numbers, Unique Factorization GCDs, Euclid Algorithm	zyBooks 9.3 - 9.5 Rosen 4.3		
week 12	Tuesday, April 2, 2024	Linear Combinations, Number Representations	zyBooks 9.6 Rosen 4.2		
	Thursday, April 4, 2024	Congruences, Fermat's Little Theorem, Euler Totient Function	Rosen 4.4	PS8 Out	PS7 Due Thu 4/4, 11:59pm
week 13	Tuesday, April 9, 2024	Chinese Remaindering Theorem Introduction to Cryptography	zyBooks 9.8 Rosen 4.6		
	Thursday, April 11, 2024	Public Key Cryptosystem: RSA	zyBooks 9.9 Rosen 4.6	PS9 Out	PS8 Due Thu, 4/11, 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, 4/20, 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 - 14.3 Rosen 11.1 - 11.2		
	Tuesday, April 30, 2024	Tree Traversals	zyBooks 14.4 Rosen 11.3		PS10 Due Wed 5/1, 11:59pm
	Thursday, May 2, 2024	Friday Class Schedule NO CLASS			
	TBA	FINAL EXAM			