

Week		Content	Reading	HW Assigned	HW Due
week1	Thursday, January 19, 2023	Course policies, Introduction to Propositional Logic	zyBooks 1.1 Rosen 1.1		
week 2	Tuesday, January 24, 2023	Truth Tables, Equivalences, Laws of Propositional Logic	zyBooks 1.2 - 1.5 Rosen 1.2 - 1.3	PS1 Out	
	Thursday, January 26, 2023	Laws Of Inference, Tree Method	zyBooks 1.11 - 1.12 Rosen 1.6		
week 3	Tuesday, January 31, 2023	Predicates & Quantifiers	zyBooks 1.6 - 1.10 Rosen 1.4	PS2 Out	
	Thursday, February 2, 2023	Inferences with Quantifiers	zyBooks 1.13 Rosen 1.6		PS1 Due Wed, 2/1, 11:59pm
week 4	Tuesday, February 7, 2023	Sets, Operations on Sets	zyBooks 3.1 - 3.3 Rosen 2.1 - 2.2		
	Thursday, February 9, 2023	Set Identities, Cartesian Products	zyBooks 3.4 - 3.7 Rosen 2.1 - 2.2	PS3 Out	PS2 Due Th, 2/9, 11:59pm
week 5	Tuesday, February 14, 2023	Functions: Injective, Surjective, Bijective	zyBooks 4.1 - 4.3		
	Thursday, February 16, 2023	Countable, Uncountable Sets, Cantor's Hierarchy	Rosen 2.5	PS4 Out	PS3 Due Thu 2/16, 11:59pm
week 6	Tuesday, February 21, 2023	Relations I: Basic Properties	zyBooks 6.1 - 6.3 Rosen 9.1 - 9.3		
	Thursday, February 23, 2023	Relations II: Composition, Closure, Equivalence	zyBooks 6.4, 6.5, 6.9 Rosen 9.4 - 9.6		PS4 Due Thu, 2/23, 11:59pm
week 7	Tuesday, February 28, 2023	Induction I	zyBooks 8.1, 8.3 - 8.4 Rosen 5.1	PS5 Out	
	Thursday, March 2, 2023	Induction II	zyBooks 8.5 - 8.7 Rosen 5.2, 5.3, 5.5		
week 8	Tuesday, March 7, 2023	Induction III: additional examples	zyBooks 8.1, 8.3 - 8.9 Rosen 5.1 - 5.3, 5.5		PS5 Due Wed, 3/8, 11:59pm
	Thursday, March 9, 2023	MIDTERM EXAM			
week 9	Tuesday, March 14, 2023	SPRING BREAK			
	Thursday, March 16, 2023				
week 10	Tuesday, March 21, 2023	Number Theory: Introduction, Peano, Division Theorem, Modular Arithmetic	zyBooks 9.1 - 9.2 Rosen 4.1 - 4.2	PS6 Out	
	Thursday, March 23, 2023	Prime Numbers, Unique Factorization GCDs, Euclid Algorithm	zyBooks 9.3 - 9.5 Rosen 4.3		
week 11	Tuesday, March 28, 2023	Linear Combinations, Number Representations	zyBooks 9.6 Rosen 4.2		PS6 Due Wed, 3/29, 11:59pm
	Thursday, March 30, 2023	Congruences, Chinese Remainder Theorem	Rosen 4.4	PS7 Out	
week 12	Tuesday, April 4, 2023	Fermat's Little Theorem, Euler Totient Function	Rosen 4.4		
	Thursday, April 6, 2023	Introduction to Cryptography	zyBooks 9.8 Rosen 4.6	PS8 Out	PS7 Due Thu 4/6, 11:59pm
week 13	Tuesday, April 11, 2023	Public Key Cryptosystem: RSA	zyBooks 9.9 Rosen 4.6		
	Thursday, April 13, 2023	Graphs and Their Representations	zyBooks 13.1 - 13.3 Rosen 10.1 - 10.3	PS9 Out	PS8 Due Thu, 4/13, 11:59pm
week 14	Tuesday, April 18, 2023	Connectivity, Cycles, Eulerian Circuits	zyBooks 13.4 - 13.6 Rosen 10.4 - 10.5		
	Thursday, April 20, 2023	Hamiltonian Paths, Planar Graphs, Graph Coloring	zyBooks 13.7 - 13.9 Rosen 10.7 - 10.8		PS9 Due Thu, 4/20, 11:59pm
week 15	Tuesday, April 25, 2023	Directed Acyclic Graphs, Topological Order	zyBooks 6.8	PS10 Out	
	Thursday, April 27, 2023	Trees & Their Properties	zyBooks 14.1 - 14.3 Rosen 11.1 - 11.2		
	Tuesday, May 2, 2023	Tree Traversals	zyBooks 14.4 Rosen 11.3		PS10 Due Wed 5/3, 11:59pm
	Thursday, May 4, 2023	REVIEW (Time Permitting)			
	TBA	FINAL EXAM			