

Week		Content	Reading	HW Assigned	HW Due
week1	Thursday, September 1, 2022	Course policies, introduction to Th. Of Comp. <a href="#">First look at Finite State Automata (FSA)</a>	Chapter 0		
week 2	Tuesday, September 6, 2022	Terminology and formal definition of FSAs state diagrams, regular languages (RL) <a href="#">operations on RLs</a>	Chapter 1.1	PS1 Out	
	Thursday, September 8, 2022	Closure of RLs under operations of union and concatenation, Non-deterministic Finite Automata	Chapter 1.2		
week 3	Tuesday, September 13, 2022	Equivalence of DFAs and NFAs	Chapter 1.2	PS2 Out	PS1 Due 11:59pm
	Thursday, September 15, 2022	Regular Expressions and their relation to NFAs and DFAs	Chapter 1.3		
week 4	Tuesday, September 20, 2022	FSA minimization	Chapter 1.3	PS3 Out	PS2 Due 11:59pm
	Thursday, September 22, 2022	DFA  RE,	Chapter 1.3		
week 5	Tuesday, September 27, 2022	The Pumping Lemma for RLs, Non-regular languages	Chapter 1.4	PS4 Out	PS3 Due 11:59pm
	Thursday, September 29, 2022	Context Free Languages Parse Trees	Chapter 2.1		
week 6	Tuesday, October 4, 2022	The Pumping Lemma for CFLs, Chomsky normal form	Chapter 2.3	PS5 Out	PS4 Due 11:59pm
	Thursday, October 6, 2022	Examples of non-CFG languages	Chapter 2.3		
week 7	Tuesday, October 11, 2022	Monday schedule -- no class			PS5 Due 11:59pm
	Thursday, October 13, 2022	Deterministic Pushdown Automata	Chapter 2.2		
week 8	Tuesday, October 18, 2022	Review			
	Thursday, October 20, 2022	MIDTERM EXAM			
week 9	Tuesday, October 25, 2022	Turing Machines	Chapter 3.1	PS6 Out	
	Thursday, October 27, 2022	Working with Turing Machines	Chapter 3.1, 3.2		
week 10	Tuesday, November 1, 2022	Variants of Turing Machines Church-Turing Thesis	Chapter 3.2, 3.3	PS7 Out	PS6 Due 11:59pm
	Thursday, November 3, 2022	Decidable Languages, Enumerators	Chapter 4.1		
week 11	Tuesday, November 8, 2022	Undecidability	Chapter 4.2	PS8 Out	PS7 Due 11:59pm
	Thursday, November 10, 2022	Reductions	Chapter 5.1, 5.3		
week 12	Tuesday, November 15, 2022	The Recursion Theorem	Chapter 6.1	PS9 Out	PS8 Due 11:59pm
	Thursday, November 17, 2022	Applications of Recursion Theorem <a href="#">Introduction to Complexity</a>	Chapter 6.1, 7.1		
week 13	Tuesday, November 22, 2022	Polynomial Complexity/class P	Chapter 7.1, 7.2		
	Thursday, November 24, 2022	Thanksgiving!			
week 14	Tuesday, November 29, 2022	Class NP	Chapter 7.3	PS10 Out	PS9 Due 11:59pm
	Thursday, December 1, 2022	NP-completeness	Chapter 7.4, 7.5		
week 15	Tuesday, December 6, 2022	Examples of NP-complete problems	Chapter 7.5		PS10 Due 11:59pm
	Thursday, December 8, 2022	<a href="#">If time permits: beyond NP</a>	<a href="#">Chapter 8.1, 8.2</a>		
	Tuesday, December 13, 2022	Review			
	TBA	FINAL EXAM			