

COMP 330 Winter 2021: Lecture Schedule

Prakash Panangaden

Week 1	Lecture 0	5 January		A1 out
	Lecture 1	7 January	Introduction, basic maths	
Week 2	Lecture 1	12 January	Deterministic finite automata	
	Lecture 2	14 January	Nondeterministic finite automata	
	Quiz 1	15-16 January	Basic logic	
Week 3	Lecture 1	19 January	Regular expressions	A1 due, A2 out
	Lecture 2	21 January	Kleene's theorem	
Week 4	Lecture 1	26 January	The pumping lemma	
	Lecture 2	28 January	The pumping lemma	
	Quiz 2	29-30 January	DFA, NFA, regular expressions	
Week 5	Lecture 1	2 February	Minimization	A2 due, A3 out
	Lecture 2	4 February	The Myhill-Nerode theorem	
Week 6	Lecture 1	9 February	Review	
	Lecture 2	11 February	MIDTERM	
Week 7	Lecture 1	16 February	Context-free languages	A3 due, A4 out
	Lecture 2	18 February	Designing context-free languages	
Week 8	Lecture 1	23 February	Pushdown automata	
	Lecture 2	25 February	Designing pushdown automata	
	Quiz 3	26-27 February	Context-free languages	
Week 9	Lecture 1	9 March	The pumping lemma for CFLs	A4 due, A5 out
	Lecture 2	11 March	Introduction to computability	
Week 10	Lecture 1	16 March	Models of computation	
	Lecture 2	18 March	Basic computability	
	Quiz 4	19-20 March	Context-free pumping lemma	
Week 11	Lecture 1	23 March	Reductions	A5 due, A6 out
	Lecture 2	25 March	Reductions	
Week 12	Lecture 1	30 March	Undecidable problems about CFG	
	Lecture 2	1 April	The Post correspondence problem	
Week 13	Lecture 1	6 April	Undecidability of FOL	A6 due
	Lecture 2	8 April	The recursion theorem	
	Quiz 5	9-10 April	Reductions	
Week 14	Lecture 1	13 April	Review for the final	