

COMP 330 Fall 2021: Lecture Schedule

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Revised on 19th September 2021

Week 0	No Lecture	Aug 31	Classes not yet started	
	Lecture 1	Sept 2	Introduction, basic math and logic	
Week 1	Lecture 1	Sept 7	Deterministic finite automata	A1 out
	Lecture 2	Sept 9	Deterministic and nondeterministic finite automata	
Week 2	Lecture 1	Sept 14	Nondeterministic finite automata	
	Lecture 2	Sept 16	Regular expressions, Kleene's Theorem	
Week 3	Lecture 1	Sept 21	The pumping lemma	A1 due, A2 out
	Lecture 2	Sept 23	The pumping lemma	
Week 4	Lecture 1	Sept 28	Minimization	
	Lecture 2	Sept 30	Lecture cancelled	
Week 5	Lecture 1	Oct 5	The Myhill-Nerode theorem	A2 due, A3 out
	Lecture 2	Oct 7	Learning automata	
Week 6	No Lecture	Oct 12	Fall break	
	No Lecture	Oct 14	Make-up day	
	Lecture 1	Oct 15	Review for the midterm	
	Mid term	Oct 15	MIDTERM	Take home, 24hrs
Week 7	Lecture 1	Oct 19	Context-free languages	A3 due, A4 out
	Lecture 2	Oct 21	Context-free languages	
Week 8	Lecture 1	Oct 26	Pushdown automata and parsing	
	Lecture 2	Oct 28	Pumping lemma for CFL's	
Week 9	Lecture 1	Nov 2	Models of computation	A4 due, A5 out
	Lecture 2	Nov 4	Basic computability theory	
Week 10	Lecture 1	Nov 9	Reducibility	
	Lecture 2	Nov 11	Reducibility, Rice's theorem	
Week 11	Lecture 1	Nov 16	Valid Computations and CFL's	A5 due, A6 out
	Lecture 2	Nov 18	Post correspondence problem	
Week 12	Lecture 1	Nov 23	First-order logic is undecidable	
	Lecture 2	Nov 25	The recursion theorem; arithmetic hierarchy	
Week 13	Lecture 1	Nov 30	Gödel's incompleteness theorem	A6 due
	Lecture 2	Dec 2	Review for the final	