

Course Schedule			
Date	Topic	Reading	What's Due
10/19 M	Closures and Algorithms		
10/21 W	Alphabets and Languages, Recursive Definitions	1, 2, 3	
10/22 Th			
10/23 F	Regular Expressions and Languages	4,9	2: 1-7, 9, 11, 16
10/26 M	Deterministic Finite Automata	5	3: 1, 11 4: 2, 4, 6, 8, 10, 15
10/28 W	Nondeterministic Finite Automata and Transition Graphs	6	5: 1, 3, 7, 9, 17 9: 2-5, 10
10/29 Th			
10/30 F	Kleene's Theorem	7	6: 2, 5, 11, 19
11/2 M	Nonregular Languages, Decidability	10,11	7: 1, 3-6 (do only parts <i>i</i> and <i>ii</i> of problems 3-6)
11/4 W	Context-Free Grammars and Languages	12,17	10: 1, 3, 5 (<i>i</i> only) 11: 2
11/5 Th			
11/6 F	Parse Trees and Pushdown Automata	14	12: 1, 3, 7, 16 (<i>i, ii</i>)
11/9 M	Pushdown Automata and Context-Free Grammars	13,15	14: 2, 3, 4, 10, 11
11/11 W	Decidability and the CYK Algorithm	18	13: 4, 8, 15, 17 15: 2, 9
11/12 Th			
11/13 F	Non-Context-Free Languages	16	18: 1 (<i>i, ii</i>), 6, 7, 8, 9, 10, 15 (<i>i-iv</i>)
11/16 M	Turing Machines	19	16: 2 (<i>i,ii</i>), 3, 4, 10, 11
11/18 W	Computing with Turing Machines	22	19: 4, 6
11/19 Th			
11/20 F	Universal Turing Machines	23	
11/23 M	The Halting Problem		23: 6, 7
11/30 M	Properties of Recursive Languages	24	23: 13 (parts <i>i, ii</i> and <i>iii</i> ; use encoding from lecture)
12/2 W	Computational Complexity; The Class P		24: 1, 2, 3

12/3 Th			
12/4 F	Boolean Satisfiability; The Class NP		Assignment #1
12/7 M	NP Completeness		
12/9 W	Review		Assignment #2
12/10 Th			
Final Exam: Dec 16 Wed 10:30-12:30pm			