

Tentative Course Schedule			
Date	Topic	Reading	What's Due
M 10/22	Closures and Algorithms		
W 10/24	Alphabets and Languages, Recursive Definitions	1, 2, 3	
Th 10/25			
F 10/26	Regular Expressions and Languages	4,9	2: 1-7, 9, 11, 16
M 10/29	Deterministic Finite Automata	5	3: 1, 11 4: 2, 4, 6, 8, 10, 15
W 10/31	Nondeterministic Finite Automata and Transition Graphs	6	5: 1, 3, 7, 9, 17 9: 2-5, 10
Th 11/1			
F 11/2	Kleene's Theorem	7	6: 2, 5, 11, 19
M 11/5	Nonregular Languages, Decidability	10,11	7: 1, 3-6 (do only parts <i>i</i> and <i>ii</i> of problems 3-6)
W 11/7	Context-Free Grammars and Languages	12,17	10: 1, 3, 5 (<i>i</i> only) 11: 2
Th 11/8			
F 11/9	Parse Trees and Pushdown Automata	14	12: 1, 3, 7, 16 (<i>i, ii</i>)
M 11/12	Pushdown Automata and Context-Free Grammars	13,15	14: 2, 3, 4, 10, 11
W 11/14	Decidability and the CYK Algorithm	18	13: 4, 8, 15, 17 15: 2, 9
Th 11/15			
F 11/16	Non-Context-Free Languages	16	18: 1 (<i>i, ii</i>), 6, 7, 8, 9, 10, 15 (<i>i-iv</i>)
M 11/19	Turing Machines	19	16: 2 (<i>i,ii</i>), 3, 4, 10, 11
W 11/21	No Class - Thanksgiving Break		
Th 11/22	Thanksgiving Break		
F 11/23	No Class - Thanksgiving Break		
M 11/26	Computing with Turing Machines	23	19: 4, 6
W 11/28	Universal Turing Machines		23: 6, 7
Th 11/29			
F 11/30	The Halting Problem		23: 13 (parts <i>i, ii</i> and <i>iii</i> ; use encoding from lecture)
M 12/3	Properties of Recursive	24	

	Languages		
W 12/5	Computational Complexity; The Class P		
Th 12/6			
F 12/7	Boolean Satisfiability; The Class NP		Assignment
M 12/10	NP Completeness		
W 12/12	Review		Assignment
Final exam: Dec. 15 Sat 12:30 p.m. - 2:30 p.m.			