

Week	Topics	Asynchronous	Tuesday	Thursday
1	Introduction	Udacity Python	—	Q&A
2	Python classes	Udacity Python	Q&A	Python classes
3	Functional programming	Intro to FP	lambda, map, filter, reduce	Immutable List
4	Hash-Array Mapped Tries	HAMTs on paper	Adding HOFs to our List	HAMTs in Python
5	Intro RE / DFA	Finite automata	Regular expressions	Tail recursion + Q&A
6	Exam week	-	Laptop Exam	Written Exam
7	Algorithms on RE / DFA	Nondeterministic FA	DFA=NFA=RE	Examples + Pumping Lemma
8	String matching	Pumping Lemma	Lexical analysis	DFA string matching
		-	Spring Break	Spring Break
9	CFG / PDA	Intro to context-free grammars	Pushdown automata	Chavez Day (no school)
10	First / Follow	-	PDA parsing / First	Follow
11	LL(1) parsing	-	Recursive descent	Building a parse tree
12	Exam week	-	Laptop Exam	Written Exam
13	Halting problem, reductions	Pumping Lemma for CFL	An uncomputable problem	No class
14	Turing machines, reductions	More reductions	Turing machines	
15	Slack / Review			
16			Section 1 Final 10:15	Section 2 Final 10:15

Schedule is speculative and subject to change.