CSC 254/454 Fall 2018 Schedule (8/23)

wk	cls	date	lecture topics	reading (PLP 4th)	assignments
1	1	Wed, Aug 29	intro to programming languages	1, 6.6.1	meaning of life by recursion
2	2	Wed, Sep 5	formal lang., automata review	2.1, 2.2	
3	3	Mon, Sep 10	scanner code, pragmas	2.2	tokenizer in Ruby/Python
	4	Wed, Sep 12	LL(1) grammar and parsing	2.3.1, 2.3.2	
4	5	Mon, Sep 17	FIRST/FOLLOW, left recursion	2.3.3	parser in Ruby/Python
	6	Wed, Sep 19	LR grammar, bottom-up parsing	2.3.4	
5	7	Mon, Sep 24	semantic analysis	4	translator in Ruby/Python
	8	Wed, Sep 26	expression translation/generation	4, 6.1	
6	9	Mon, Oct 1	if-then-else code gen	lecture notes	
	10	Wed, Oct 3	iterators	6.5, lecture notes	
7	11	Mon, Oct 8	type, type checking	7.0–7.2	iterator in Ruby/Python
	12	Wed, Oct 10	operators, loops, more control flow	6.1—6.4	
Fall break					
8	13	Wed, Oct 17	recursive types, lists in Ocaml	8.5, 8.6, 11.4	iterator in Haskell
9	14	Mon, Oct 22	scanner/parser with typing	lecture notes	translator in Haskell
	15	Wed, Oct 24	higher-order functions	11.1, 11.2, 11.6	
10	16	Mon, Oct 29	**mid-term exam (away, CASCON)**		
	17	Wed, Oct 31	lists in Scheme	11.3	
11	18	Mon, Nov 5	Scheme in Scheme	lecture notes	LC in Haskell
	19	Wed, Nov 7	subroutine, stack, exceptions	9	
12	20	Mon, Nov 12	param. passing, calling sequence	9	compiler in Haskell
	21	Wed, Nov 14	func code generation	lecture notes	
13	22	Mon, Nov 19	func code generation	lecture notes	
	23	Wed, Nov 21	generics	7.3	
Thanksgiving break					
14	24	Mon, Nov 26	threads and synchronization	13.1, 13.2	concurrency in Java
	25	Wed, Nov 28	class, multi-inheritance, dyn lang	10, 14	
15	26	Mon, Dec 3	compiler backend, linking	15	iterator/generics in C++
	27	Wed, Dec 5	language virtual machine and JIT	16	
16	28	Mon, Dec 10	program optimization	17	compiler makeup
	29	Wed, Dec 12	**class review**	lecture notes	
Final exam, Tuesday, December 18, 12:30pm					