

CSC 253/453 Fall 2018 Schedule (8/22/18)

week	lecture	date	topics	reading	assignment
1	1	Wed, Aug 29	software difficulties, what is design	Brooks, Parnas	Slashdot
2	2	Wed, Sep 5	each, map, inject, and unit testing	Olsen Ch. 7, unit testing	
3	3	Mon, Sep 10	4 criteria of a module	Parnas Ch. 7	iterators 1
	4	Wed, Sep 12	iterator module	Ruby Enumerable	
4	5	Mon, Sep 17	transparency	Parnas Ch. 8, 9	iterators 2
	6	Wed, Sep 19	program families	Parnas Ch. 10,14	
5	7	Mon, Sep 24	DVCS revlog and merge	Mercurial v0.1	iterators 3
	8	Wed, Sep 26	teams	Schach Ch. 4	
6	9	Mon, Oct 1	unified process	Scratch Ch. 3,10-13	DVCS design
	10	Wed, Oct 3	pure lambda calculus	wiki on Church numerals	
7	11	Mon, Oct 8	design patterns: builder, adaptor, configuration	Olsen Ch. 9,14,18	DVCS team
	12	Wed, Oct 10	streams by Yu (away, LCPC)	SICP Sec. 3.5	streams
8		Mon, Oct 15	fall break		
	13	Wed, Oct 17	design review	Parnas Ch. 13,17	DVCS review
9	14	Mon, Oct 22	interpreter, DSL	Olsen Ch. 15,16	rake
	15	Wed, Oct 24	callcc and enumerator	slides	
10	16	Mon, Oct 29	mid-term exam (away, CASCON)		generator
	17	Wed, Oct 31	continuation passing and actor model	Steele/Gabriel, HOPL93, 2.8 (req), 4 (opt)	
11	18	Mon, Nov 5	Object class vs Class object	Kay, HOPL93 (opt)	
	19	Wed, Nov 7	module, mix-in, multi-inheritance		
12	20	Mon, Nov 12	obj extension and meta-class	Olsen Ch. 11, 12, 17	meta-prog
	21	Wed, Nov 14	essence of types	7.1 of PLP, PLAI-e1 24	DVCS due
13	22	Mon, Nov 19	dynamic vs static typing	Ruby 1.8 README.TXT	Ruby ext.
		Wed, Nov 21	Thanksgiving break		
14	23	Mon, Nov 26	type judgement, data type, type soundness	PLAI-e1 25-28 (excluding 26.2, 27.1.2, 27.1.3)	
	24	Wed, Nov 28	explicit polymorphism	PLAI-e1 29	DVCS beta
15	25	Mon, Dec 3	Haskell type classes	Haskell tutorial Ch. 5	iterators 4
	26	Wed, Dec 5	monads	Haskell tutorial Ch. 9	
16	27	Mon, Dec 10	locality analysis/optimization	Manuscript	
	28	Wed, Dec 12	review		
		Mon, Dec 18	final exam (9:30am)		