

Schedule

Note: This schedule is subject to change. The optional texts and notes are, as the name suggests, merely supplementary.

Week	Topic	Optional Texts	Optional Notes
1 / 8	Racket & Recursion	Chs 1, 2, & 4, SAOP	
1 / 10	Higher-Order Abstraction & Primitive Recursion	Ch 7, SAOP	program transformations enrichment material
1 / 15	letrec, quasiquote & match	Ch 5.1-5.2, SAOP	letrec [http://docs.racket-lang.org/reference/let.html#%28form._%28%28lib._racket%2Fprivate%2Fletstx-scheme..rkt%29._letrec%29%29] quasiquote [http://docs.racket-lang.org/reference/quasiquote.html?q=letrec] match [http://docs.racket-lang.org/reference/match.html?q=match#%28form._%28%28lib._racket%2Fmatch..rkt%29._match%29%29]
1 / 17	Free and bound variables, lexical address		Free, Bound, Lex notes [http://www.ccs.neu.edu/course/cs7400/lectures/lecture04.pdf]
1 / 22	Intro. to Interpreters	Chs 2 & 3, EOPL	
1 / 24	Representation Independence w.r.t. Environments, Closures		Notes on representation independence [https://github.com/mvccccc/C311Sp19/blob/master/notes/ri_interpreter.pdf]
1 / 29	Dynamic and Lexical Scope		
1 / 31	Parameter-Passing Style	Ch 4.5, EOPL	An in-depth look at parameter-passing variations
2 / 5	Exam Review		
2 / 7	Exam 1		
2 / 12	intro to continations and CPS	Chs 16 & 17, SAOP; Ch 6.1-6.3 EOPL	<u>CPS Refresher</u> Notes Notes
2 / 14	CPS/CPS interpreters	Ch 5.1, EOPL	
2 / 19	Representation independence w.r.t. continuations		ri notes newer older
2 / 21	Registerization	Ch 5.3, EOPL	Newer notes
2 / 26	Trampolining	Ch 5.2, EOPL	Older notes on reg & trampolining
2 / 28	ParentheC		the ParentheC paper
3 / 5	Exam Review		
3 / 7	Exam 2		
3 / 12	Spring break		
3 / 14	Spring break		
3 / 19	Introduction to miniKanren		xform to mK notes [http://www.cs.indiana.edu/l/www/classes/c311/miniaop.pdf] on lp [http://www.cs.indiana.edu/l/www/classes/c311/minirop.pdf] and [http://www.cs.indiana.edu/l/www/classes/c311/minilop.pdf] unification [http://www.cs.indiana.edu/l/www/classes/c311/miniunify.pdf]
3 / 21	miniKanren implementation		draft paper
3 / 26	Types	Ch 7.1-7.2, EOPL	
3 / 28	Type Inferencing	Ch 7.3-7.4, EOPL	type inference notes [http://www.cs.indiana.edu/classes/c311/minitypes.pdf]
4 / 2	SPS	Ch 4.3, EOPL	
4 / 4	Macros	Ch 14, SAOP	Syntax rules for the merely eccentric [http://www.phyast.pitt.edu/~micheles/syntax-rules.pdf]
4 / 9	Monads		Cameron's Dan and Adam's Dan's Wadler's [http://homepages.inf.ed.ac.uk/wadler/papers/marktoberdorf/baastad.pdf]
4 / 11	Monads		
4 / 16	Bonus		
4 / 18	More miniKanren		
4 / 23	bonus		
4 / 25	Final Exam Review		

Key

Abbreviation	Title
EOPL	“Essentials of Programming Languages”, 3rd edition
SAOP	“Scheme and the Art of Programming”

Our final exam will be held on the date, time, and location given by the registrar [http://registrar.indiana.edu/calendars/exam-schedule.shtml].