

class			Theory topics	Practical topics	HW and exams	Specific topics	Reading
1	Mon	8/31	1. Syntax & Semantics (ch3)			BNF	3.0-3.3.1.4
2	Thu	9/3				parse trees + attribute grammars	3.3.1.5-3.3.3, 3.4
3	Mon	9/7				C/C++ compilation and execution. Stack and heap. Pointers. Arrays.	6.11
4	Thu	9/10	2. Imperative and object-oriented programming in C and C++ imperative (ch6-8), object-oriented (ch 11-12)		hw1	More pointers and memory allocation. Data types in general. Enums and unions. C++ intro.	6.4, 6.5, 6.10, 6.11
5	Mon	9/14				[lab day]	
6	Thu	9/17			hw2	ADTs, inheritance, destructors, templates	11
7	Mon	9/21				multiple inheritance, polymorphism, virtual functions	12.1-5, 12.11
8	Thu	9/24				[lab day]	
9	Mon	9/28			hw3	operator overloading, references, assignments, goto	7 and 8
10	Thu	10/1				[lab day]	
11	Mon	10/5		3. Scanning & Parsing (ch4)		hw4	scanning
12	Thu	10/8				bottom-up parsing	4.5
13	Mon	10/12			exam1		
14	Thu	10/15	4. Functional programming in Scheme (ch15)			Running Scheme programs. Basics. Lambda expressions.	15.0-15.5.7
15	Mon	10/19				[fall pause]	
16	Thu	10/22			hw5	Lists. Quote. Let and letrec.	15.5.8-11 and 6.9
17	Mon	10/26				Tail recursion, functional forms.	15.5.12-14
18	Thu	10/29				Scheme implementation	--
19	Mon	11/2			hw6	functional versus imperative	15.11
20	Thu	11/5				[further Scheme topics + lab day]	
21	Mon	11/9		5. Scope & Type Checking (ch5)		hw7	names, bindings, type checking
22	Thu	11/12				scope	5.5-5.8
23	Mon	11/16			exam2		
24	Thu	11/19	6. Logic programming in Prolog (ch16)		hw8	prolog basics	16.4-6 (skip 16.6.6)
25	Mon	11/23			hw8	predicate logic, resolution, unification, negation	16.1-3
26	Thu	11/26				[thanksgiving]	
27	Mon	11/30				prolog inference; deficiencies and applications of logic programming [+ lab day]	16.6.5, 16.7-8
28	Thu	12/3	7. Final project		hw9	final project	
29	Mon	12/7				final project + exam revision/hints	
30	Thu	12/10			hw10 (due 11:59pm Friday 12/12/11)	final project	
	2pm, Thu	12/17			final exam		