

class			Theory topics	Practical topics	HW and exams	Specific topics	Reading	
1	Tue	9/2	1. Syntax & Semantics (ch3)			BNF	3.0-3.3.1.4	
2	Thu	9/4					parse trees + attribute grammars	3.3.1.5-3.3.3, 3.4
3	Tue	9/9		2. Imperative and object-oriented programming in C and C++ imperative (ch6-8), object-oriented (ch 11-12)	hw1	C/C++ compilation and execution. Stack and heap. Pointers. Arrays.	6.11	
4	Thu	9/11			hw1	More pointers and memory allocation. Data types in general. Enums and unions. C++ intro.	6.4, 6.5, 6.10, 6.11	
5	Tue	9/16				[lab day]		
6	Thu	9/18			hw2	ADTs, destructors, templates	11	
7	Tue	9/23				inheritance, multiple inheritance vs interfaces, virtual functions	12.1-5, 12.11	
8	Thu	9/25			hw3	[lab day]		
9	Tue	9/30			hw3	operator overloading, references, assignments, goto	7 and 8	
10	Thu	10/2				[lab day]		
11	Tue	10/7	3. Scanning & Parsing (ch4)			hw4	scanning	4.1-4.2
12	Thu	10/9					bottom-up parsing	4.5
13	Tue	10/14			exam1			
14	Thu	10/16		4. Functional programming in Scheme (ch15)		Running Scheme programs. Basics. Lambda expressions.	15.0-15.5.7	
15	Tue	10/21				[fall pause]		
16	Thu	10/23			hw5	Lists. Quote. Let and letrec.	15.5.8-11 and 6.9	
17	Tue	10/28				Tail recursion, functional forms.	15.5.12-14	
18	Thu	10/30			hw6	Scheme implementation	--	
19	Tue	11/4			hw6	functional versus imperative	15.11	
20	Thu	11/6				[further Scheme topics + lab day]		
21	Tue	11/11	5. Scope & Type Checking (ch5)		hw7	names, bindings, type checking	5.1-5.4, 6.12-14	
22	Thu	11/13				scope	5.5-5.8	
23	Tue	11/18			exam2			
24	Thu	11/20		6. Logic programming in Prolog (ch16)	hw8	prolog basics	16.4-6 (skip 16.6.6)	
25	Tue	11/25				predicate logic, resolution, unification, negation	16.1-3	
26	Thu	11/27				[thanksgiving]		
27	Tue	12/2				prolog inference; deficiencies and applications of logic programming [+ lab day]	16.6.5, 16.7-8	
28	Thu	12/4	7. Final project			hw9	final project	
29	Tue	12/9				final project		
30	Thu	12/11				hw10 (due 11:59pm Friday 12/12)	final project	
	2pm, Mon	12/15			final exam			