

week		Tutorial (Mondays 13-14)	Lab (Mondays 14-15)	Lecture (Wednesdays 9-11)			Deadline (Sundays midnight)	
1	08/01/18			10/01/18	Introduction to Compilers	PA0 handout	14/01/18	QMUL github
2	15/01/18	Introduction to Cool	PA0 setup	17/01/18	Lexical Analysis	PA1 handout	21/01/18	PA0
3	22/01/18	Antlr Lexer	PA1 setup	24/01/18	Syntactic analysis	EX handout	28/01/18	Team sign-up
4	29/01/18	Antlr Parser	Support as needed: antlr, git, java	31/01/18	Intermediate representations	PA0 feedback		
5	05/02/18	Cool Abstract Syntax Tree	Visitor design pattern	07/02/18	Semantic Analysis	PA2 handout	11/02/18	PA1
6	12/02/18	Cool symbol tables, class hierarchy	PA2 setup	14/02/18	Type checking			
7	19/02/18	Cool type checking	Compile-time error handling and recovery	21/02/18	Revision	PA1 feedback		
8	26/02/18	MIPS Assembly	Cool support	28/02/18	Code Generation	PA3 handout	04/03/18	PA2
9	05/03/18	Cool operational semantics	PA3 setup	07/03/18	Runtime organization			
10	12/03/18	Cool object layout	Hardware simulator	14/03/18	Memory management	PA2 feedback		
11	19/03/18	Cool runtime	Runtime error handling and recovery	21/03/18	Code Optimization		25/03/18	PA3
12	26/03/18	Cool register allocation	Peer code review	28/03/18	Compilers in the real world	PA3 feedback		

Figure 1: Tentative schedule of teaching and learning, assessment and feedback.

	Task	Activity	Submission	Length (weeks)	Weight
PA0	Stack	programming	individual	1	5%
PA1	Lexer and Parser	programming	team	3	15%
PA2	Type checker	programming	team	3	15%
PA3	Code generator	programming	team	3	15%
EX	Lexing and parsing theory	writing	individual	revision week	0%
MOCK	Mock exam	writing	individual	last week of the semester	0%
	Total coursework				50%
	Exam Questions				
EQ1	Lexing and parsing theory				10%
EQ2	Classify time of events: runtime, load-time, link-time, compile-time, program development time, compiler design time, other (specify)				10%
EQ3	Concepts in compilers: multiple choice questions and short open questions				12.5%
EQ4	Explain how to modify Cool compiler to accommodate a new feature				17.5%
	Final Exam				50%
	Total				100%

Figure 2: Assessment plan