

COMP 302 Summer 2006: Lecture Schedule

Patrick Lam

June 9, 2006

Week 1	Lecture 1	May 2	Basic SML, Functions, Tuples/Records	
	Lecture 2	May 4	Recursion, Lists	HW1 out
Week 2	Lecture 3	May 9	Concrete data types, Induction Formal syntax, Typing rules	
	Lecture 4	May 11	Substitution, Operational semantics	HW2 out, HW1 due
Week 3	Lecture 5	May 16	Operational reasoning Higher-order functions	
	Lecture 6	May 18	Higher-order functions Midterm review	HW3 out, HW2 due
Week 4	Lecture 7	May 23	References, Midterm 1	
	Lecture 8	May 25	Continuations, References	
Week 5	Lecture 9	May 30	Mutable data structures, microML, interpreter, Environment model	HW3 due
	Lecture 10	Jun 1	Closures & Objects, Exceptions	HW4 out
Week 6	Lecture 11	Jun 6	Lambda-calculus	
	Lecture 12	Jun 8	Streams, Midterm review	
Week 7	Lecture 13	Jun 13	Subtyping, Midterm 2	
	Lecture 14	Jun 15	Polymorphism, Polymorphic Type Inference	HW5 out, HW4 due
Week 8	Lecture 15	Jun 20	Modules, The Object-Oriented Paradigm	
	Lecture 16	Jun 22	OO Paradigm, Java inheritance and subtyping, Type rules for “Java”	
Week 9	Lecture 17	Jun 27	C++, Java, JavaScript, Ada	
	Lecture 18	Jun 29	Scheme, Python, Final Review	HW 5 due

General information about the course

My version of the course webpage is located at,

<http://comp302.csail.mit.edu>

This page contains assignments (and hints for the assignments), lecture notes and examples, resources on SML and links to interesting articles on programming languages. You will need either Acrobat Reader or Ghostview to read the PDF and PS documents on the page; if you don't already have them, Google will tell you where to find them.

SML should be running on the department's lab machines. If you are an emacs user, the SML-mode under emacs environment is an excellent programming environment. Because SML/NJ is free software, you may download your own version of it for your personal computer. Check the "Resources" tab on the web page for instructions on obtaining SML.

Course staff & Office Hours

Patrick Lam	plam@cs.mcgill.ca	McConnell 231	TWJ 2:00-3:00
Ximeng Sun	xsun16@cs.mcgill.ca	McConnell 202	M 12:00-2:00
Matthew Drescher	mdresc@cs.mcgill.ca	Trottier 3106-7	W 5:00-7:00

Method of evaluation

There will be five assignments (30 %), two midterms (20 %) and a final examination (60%). The assignments will be a mix of programming and theoretical exercises.

The midterms and final examination will be open book and open notes.

Course text

Professor Robert Harper at Carnegie Mellon University has given us permission to use his draft notes, *Introduction to SML*, as our course text. The notes are available from the course website.

Obligatory statement on Academic Integrity

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