

# CS 558 Programming Languages - Winter 2008 - Schedule

All aspects of this schedule are subject to change.

Key to readings:

Louden = Kenneth C. Louden, *Programming Languages: Principles and Practice, 2nd ed.*, Thomson Brooks/Cole, 2003.

Hoare-Axiomatic = C.A.R. Hoare, *An axiomatic Basis for Computer Programming*

Hoare-Hints = C.A.R. Hoare, *Hints on Programming Language Design*

Steele = Guy Steele, *Growing a Language*

Assigned readings should be read *before* the associated lecture date.

<i>date</i>	<i>due</i>	<i>reading</i>	<i>topics</i>
Jan 8		Louden 1,2	Introduction; Java & ML
Jan 10		Louden 4.1–5	Concrete and abstract syntax
Jan 15	HW1	Louden 7.1–4	Simple imperative languages
Jan 17		Louden 13.1,13.4–5; Hoare-Axiomatic	Definitional interpreters; Axiomatic Semantics
Jan 22	HW2	Louden 5.1–4	Binding; Scope; Storage
Jan 24		Louden 5.5–7,13.2	Formal operational semantics
Jan 29	HW3	Louden 8.1–3	Procedures; Stacks; Calling Conventions
Jan 31		Louden 8.4–5	Recursion; Dynamic allocation
Feb 5	HW4	Louden 7.5, 8.6	Exceptions; Catch-up
Feb 7		Louden 11.1–4	Functional Programming
Feb 12			<b>Midterm Exam</b> (in-class)
Feb 14		Louden 12.1–5	Logic Programming
Feb 19	HW5	Louden 6.1–5	Type systems
Feb 21		Louden 6.6–9	Type checking and inference
Feb 26	HW6	Louden 9.1–3,9.8	Abstract data types
Feb 28		Louden 9.4–7	Modules
Mar 4	HW7	Louden 10.1–4	Object-oriented programming
Mar 6		Louden 10.5–8	Object-oriented language implementation
Mar 11	HW8	Louden 3; Hoare-Hints; Steele	Language Design
Mar 13			Catch-up
Mar 18			<b>Final Exam</b> (at 5:30pm)