

# CS 451: Programming Languages

Fall 2009

## Instructor:

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## Text:

Ravi Sethi, *Programming Languages Concepts and Constructs*, 2<sup>nd</sup> ed. Addison Wesley.

## Course Objective

Big picture this course takes your tool box from one to many. If you engage in the material you will later be able to pick up new programming languages as easy as  $\pi$ .

## Path:

The goal of this course is exposure to different programming paradigms. The path I expect you to take is that of an explorer. We will completely explore nothing, but see a lot of cool stuff.

Never be afraid to try something new. Remember, amateurs built the ark; professionals built the Titanic.

## Grading:

Ten programs:	50%
Midterm:	25%
Final:	25%
Slush:	?%
Total:	10?%

There will also be “daily” homework assignments, which will affect the slush component.

## Late work:

Assignments are due on their due date at (or before) 6:00am; assignments handed in after that time lose 10% a day (a day is defined as 24 hours).

## Cheating:

**Don't.** Individual work is expected on your programs and exams (note that asking for help finding a “bug” is not considered cheating). You may work together on the homework. Make sure you have read the honor code.

## Tentative Schedule:

Week	Chapter	Topic	Programs	
			Assigned	Due
1	1/2	introduction	P1/P2	
2		a survey of programming languages / C		
3	3/4/5	imperative programming: C		P1
4	8.1-8.4/10/15.6	functional programming: lisp	P3	P2
5	8.5-8.6/9/15.5	functional programming: ML	P4	P3
6	11	logic programming: prolog	P5	P4
7	11	prolog / slush / MIDTERM EXAM		
8	6/15.4	Object-oriented programming: smalltalk	P6	P5
9	6/7	object-oriented programming: smalltalk		P6
10	6/7	aspect-oriented programming: Aspect/J	P7	
11	??	new/Avantgarde Languages, C#, icon ?	P8	P7
12	??	Pets		P9
13	??	Pets	P10	
14		review		P10
15	FINAL			

Note If you have a disability which is documented with the Disability Support Services Office and wish to discuss academic accommodations with me, please contact me as soon as possible.