

Computer Engineering 171

Design and Implementation of Programming Languages

Fall 2006
Tuesdays and Thursdays
11:50 am – 1:35 pm
ENGR 105

Instructor

Instructor: Darren Atkinson
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Office hours: Tuesdays and Thursdays, 10:00 am – 11:00 am and 4:00 pm – 5:00 pm
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Textbook

Ravi Sethi, *Programming Languages: Concepts and Constructs*, Addison Wesley, 2nd edition, 1996.

Grading

Component	Weight	Dates
Projects	30%	10/13, 10/27, 11/10, 12/1
Midterm exam	30%	10/19
Final exam	40%	12/7

Overview

- Common language concepts: expressions, grammars, syntax trees
- Imperative languages: Pascal, C
- Object-oriented languages: C++, Smalltalk, Java
- Functional languages: ML, Scheme, Lisp
- Logical languages: Prolog
- Formal semantics: lambda calculus