Computer Science 541
Section 1
(Class Nbr 71951)

Fall 2005

Programming Language Semantics

Instructor

Craig A. Rich
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Office Hours: Mon, Wed 9:30–11:00; Tue, Fri 10:00–11:00
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Lecture Meetings

Time: Mon, Wed 4:00–5:50
Place: Bldg. 8, Room 345

Textbook

Rich, Craig A. *Programming Language Semantics—CS 541 Lecture Notes*, Fall 2005 (Available at Bronco Copy 'n Mail in the University Union).

Web-based Materials

my home page:	`http://www.csupomona.edu/~carich/`
CS 541 home page:	`http://www.csupomona.edu/~carich/classes/cs541/`
Generic Interpreter:	`http://www.csupomona.edu/~carich/gi/`
Intranet services:	`http://www.csupomona.edu/intranet/services/`

Grading

Exams			70%
Midterm	(Monday, October 31)	35%	
Final	(Monday, December 5, 3:50–5:50 p.m.)	35%	
Homework and Quizzes			30%

A student's weighted average percentage is $\left(\sum w_i(s_i/m_i)\right)/\left(\sum w_i\right)$, where w_i, s_i, m_i are the weight, student's score and maximum score on graded assignment i. Course grades are assigned according to this curve, with the median student usually earning a `C+` grade. Graded assignments will be accepted without penalty at any time on or before their due date. Graded assignments that are submitted after their due date will have their score reduced by $10(n+1)\%$, where n is the number of school days properly between the due date and the date submitted.

The course will introduce operational semantics and will cover denotational and axiomatic semantics in detail. The notes covering denotational semantics are derived primarily from:

> Mosses, Peter D. *Denotational Semantics*, Chapter 11, in Van Leeuwen, Jan, ed., *Handbook of Theoretical Computer Science*, Vol. B, North-Holland, 1990.
>
> Gunter, C.A.; and Scott, Dana S. *Semantic Domains*, Chapter 12, in Van Leeuwen, Jan, ed., *Handbook of Theoretical Computer Science*, Vol. B, North-Holland, 1990.

The notes covering axiomatic semantics are derived primarily from:

> Alagic, Suad; and Arbib, Michael A. *The design of well-structured and correct programs*, ISBN 0-387-90299-6, Springer-Verlag, 1978.