

Computer Science 541
(CS 8954101)

Fall 1991

Programming Language Semantics

Instructor

Craig A. Rich
Office: Bldg. 8, Room 40
Office Hours: Mon,Wed 12:00–1:00; Tue,Thu 1:00–2:30
Phone: (714)869-3447

Lecture Meetings

Time: Tue,Thu 4:00–5:50
Place: Bldg. 8, Room 209

Textbook

Rich, Craig A. “Programming Language Semantics—CS 541 Lecture Notes,” Fall 1991 (To be distributed in class).

Alagić, Suad; and Arbib, Michael A. “The design of well-structured and correct programs,” Springer-Verlag, New York, 1978 (Available at Cal Poly Bronco Bookstore).

Course Grading

Exams	70%
Midterm (Thu October 24)	35%
Final (Tue December 3, 3:50–5:50)	35%
Homework and Quizzes	30%

The course will introduce operational semantics and will cover denotational and axiomatic semantics in detail. A comprehensive set of lecture notes will be distributed in class. 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, Amsterdam, 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, Amsterdam, 1990.

The notes covering axiomatic semantics are derived primarily from Alagić and Arbib.