

Computer Science 540
(CRN 20825)

Spring 1993

Code Optimization and Data Flow Analysis

Instructor

Craig A. Rich
Office: Bldg. 8, Room 40
Office Hours: Mon,Wed 2–3:30; Tue,Thu 11–12
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Lecture Meetings

Time: Tue,Thu 4–5:50
Place: Bldg. 8, Room 345

Textbook

Rich, Craig A. “Code Optimization and Data Flow Analysis—CS 540 Lecture Notes,” Spring 1993 (Available at Cal Poly Kinko’s).

Aho, Alfred V.; Sethi, Ravi; and Ullman, Jeffrey D. “Compilers—Principles, Techniques, and Tools,” Addison-Wesley, Reading, Mass., 1986 (Available at Cal Poly Bronco Bookstore).

Course Grading

Exams	70%
Midterm (Thursday, April 29)	35%
Final (Tuesday, June 8, 3:50–5:50)	35%
Homework and Quizzes	30%

Graded assignments will be accepted without penalty at any time on or before their due date. Graded assignments which are submitted after their due date will have their score reduced by $5(n + 1)\%$, where n is the number of school days between the due date and the date submitted.

The course will cover most of the topics in chapters 8–10 of the textbook. A comprehensive set of lecture notes are available at Cal Poly Kinko’s, and cover data flow analysis theory and techniques as they apply to compiler optimization, software metrics, and software systems in general.