Computer Engineering 259
Compiler Construction and Optimization

Spring 2005
Mondays and Wednesdays
5:10 pm – 7:00 pm
ENGR 105

Instructor
Instructor: Darren Atkinson
Office: ENGR 245
Office hours: Mondays, Wednesdays, and Fridays, 12:30 pm – 1:30 pm
E-mail: datkinson@scu.edu
Web page: http://www.cse.scu.edu/~atkinson/teaching/259

Textbooks

Grading
First exam: 30% (4/27)
Second exam: 30% (6/6)
Nonoptimizing compiler: 20% (5/4)
Optimizing compiler: 20% (6/1)

Overview
This course will discuss the practice of building a compiler. The exams will mostly cover aspects of compiler design and optimization. The project will require you to build a simple compiler for a subset of the C language. You will implement the project in either the C or C++ programming language. All work must be done individually. The project will be delivered and graded in two stages: a working compiler without any optimizations and an enhanced version with optimizations. Your project must work on the Solaris machines in the design center.