Computer Engineering 175
Introduction to Formal Language Theory
and Compiler Construction

Fall 2005
Tuesdays and Thursdays
11:50 am – 1:35 pm
ENGR 304

Instructor

Instructor: Darren Atkinson
Office: ENGR 245
Office hours: Tuesdays and Thursdays, 1:45 pm – 2:30 pm
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Textbooks

Required: Aho, Sethi, and Ullman, *Compilers: Principles, Techniques, and Tools*, Addison-Wesley, 1986.
Recommended: Mason, Levine, and Brown, *lex & yacc*, 2nd edition, O'Reilly, 1992.

Teaching Assistant

Teaching assistant: Munawer Saeed
Lab hours: Fridays, 2:15 pm – 5:00 pm
E-mail: munawer22@yahoo.com

Grading

Midterm exam: 25% (10/25)
Final exam: 35% (12/6)
Project: 40% (9/30, 10/11, 10/21, 11/4, 11/15, 12/2)

Overview

This course will discuss the theory and practice of building a compiler. The exams will mostly cover the theoretical aspects of formal languages and compiler design. 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 stages: lexical and syntax analysis, semantic analysis, and code generation.