

CS 350
Theoretical Foundations of Computer Science II
Spring 2005
Syllabus

Professor: Alan Sprague

Office Hours:

Tues, Thurs. after class;

Tues 4-5, Thurs 11-12, in 129 Campbell Hall;

Also by appointment.

email: sprague@cis.uab.edu

(also telephone: 934-8513)

TA: Faizan Javed

Office Hours:

Text: Hopcroft, Motwani, and Ullman, Introduction to Automata Theory, Languages, and Computation

Grading:

There will be 5 to 7 assignments.

There will be two midterm exams, and a final test. The final test will be on Tuesday, May 3, 4:15-6:45 p.m. The final test will be cumulative - it will cover the entire semester's material.

The semester grade will be based on:

Assignments	14%
Midterms	50% (25% each)
Final	36%

Course material:

Regular languages: Finite state automata, regular expressions, properties of regular languages.

Context free languages: Context free grammars, pushdown automata, properties of context free languages.

Turing machines and their associated languages.

Computability and decidability.

Computational complexity.