

CS 350
Theoretical Foundations of Computer Science II

Syllabus

Professor: Alan Sprague

Office Hours:

Monday, Wednesday 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: Srilatha Poosa

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.

First test: Wednesday, February 20.

Second test: Wednesday, April 2.

Final test: Wednesday, April 30, 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.

Other: The course meets 5:30-6:45 pm Mondays and Wednesdays, in
RPHB 510 (Ryals Public Health).