

Course Syllabus
CSCI 2670 – Theory of Computing
Fall 2005

Meeting Place and Time: Tuesday and Thursday 3:30 – 4:45 Boyd GSRC 328
Wednesday 1:25 – 2:15 Boyd GSRC 306

Course Web Page: <http://www.cs.uga.edu/~shelby/classes/2670-fall-05>

Instructor: Prof. Shelby Funk

Telephone: 542-3449

Office: Boyd GSRC 215

E-mail: shelby@cs.uga.edu

Office Hours: Tuesday and Wednesday 11:00 – 12:30, or by appointment

TA Ryan Foster's Office Hours: Monday 2:30 - 3:30 (Rm. 323) and Friday 10:00 – 11:00 (Rm. 524)

Text: *Introduction to the Theory of Computation, 2nd edition*, Michael Sipser, Thompson Course Technology, 2006.

Objectives: This course will introduce you to fundamental topics in the theory of computation. By the end of the semester, you will be familiar with finite automata and regular languages, push-down automata and context-free grammars, Turing machines, the formal definition of an algorithm, complexity classes and NP-completeness proofs.

Prerequisites: CSCI 2610 (Discrete Math).

Topics: We will cover most of Chapters 1 through 5 and part of Chapters 6 and 7 of Sipser's book.

Important dates:

Aug. 18, Thu.	Classes begin
Aug 18 – 25	Drop/Add
Sept. 5, Mon.	Labor day holiday
Sept. 27, Tue.	First midterm exam
Oct. 14, Fri.	Midpoint withdrawal deadline
Oct. 26, Wed.	Second midterm exam
Oct. 27 – 28, Thu. – Fri.	Fall break
Nov. 23 – 25, Wed. – Fri.	Thanksgiving break
Dec. 1, Thurs	Third midterm exam
Dec. 6, Tues.	No class (Friday schedule)
Dec. 8, Thu.	Classes end
Dec. 15, Thu.	Final exam, 3:30 - 6:30 PM

Grading:

Homework	20%
Quizzes	15%
Midterm Exams	15%
Final Exam	20%

We will have weekly homework assignments. Homework will be due at the beginning of class. I will give your assignments to the TA at 11:00 the day after it is due and I will accept your assignments until that time. Quizzes will be held during most weeks. There will be no make-up quizzes. The lowest quiz grade and the lowest homework grade will not be included in the calculation of your grade.

The final exam will cover the entire course.

Students will also be graded on class participation. I reserve the right to adjust final grades by up to half a letter grade (positive or negative) as a “reward” for in-class participation.

Exam make-up policy: Any student who has three or more final exams on the same calendar day or two final exams at the same time is permitted to reschedule one of their final exams. If one of the exams in question is a “mass” exam, then that exam should be rescheduled. Otherwise, you may arrange to reschedule the final exam for this course. Please check your final exam schedule soon and let me know if you need to reschedule for this reason.

There will be no exam make-up exams for any reason other than the ones stated above. If you miss an exam, the grade you will receive for that exam will be the **lowest** of the grades you receive on the other three exams. If you miss more than one exam, you will receive a zero on all missed exams.

Attendance policy: It is expected that students will be present at all classes. You are responsible to find out any announcements made or material covered in class if you miss that class. While lack of attendance will not directly affect your grade, it is highly unlikely that you will be able to do well in this class if you do not attend the classes. Moreover, your grade will definitely not be adjusted upward if you regularly miss classes.

Academic honesty: All academic work must meet the standards contained in “A Culture of Honesty.” Students are responsible for informing themselves about those standards before performing any academic work. The link to more detailed information about academic honesty can be found at:
<http://www.uga.edu/ovpi/honesty/acadhon.htm>

Caveat: The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.