

Brief Syllabus of COSC 2336-01, Spring 2005
Data Structures
MWF 11:15 AM ~ 12:05 PM, Mase 106

The first lecture begins at 11:15 AM, January 19, 2005

Instructor: Chung-Chih Li, Ph.D.
Office: Mase 69, Tel:(409) 880-8748
URL: <http://hal.lamar.edu/~licc>
E-mail: licc@hal.lamar.edu
Office Hours: Tue & Thu 2:00 ~ 3:30 PM or by appointment

Topics: This is the last course of the three-course-series, COSC 1336-1337-2336. I call it the trilogy of CS major, which is required for every student in CS major.

In this course, we assume that students already have certain maturity of programming skill, especially C++. Nevertheless, we will briefly review the basic yet necessary features of C++ at the beginning of the semester. A better data structure is meant to speed up our programs. Thus, we will scratch the principle of analyzing the complexity of programs in order to give students a motivation of learning data structures. Afterwards, we will learn some standard data structures such as *linked list*, *stacks*, *queues*, *trees*, and *graphs*. Also, we will learn some complicate programming skills to solve problems and handle data. These skills includes *recursion*, *sorting*, and *hashing*.

Prerequisites: COSC 1336 and COSC 1337 (each with grade B or better).

Textbook: *Data Structures and Algorithms in C++*, by Adam Drozdek, Thomson Course Technology, 3rd Edition 2005

Examinations: (300 points) Two midterms and one Final Exam (100 points for each test)

- Unless announced otherwise, all tests are accumulative, closed book, and indispensable. No makeup test will be given unless a documented absence is authorized by the university.
- Every student is allowed to bring a self-prepared crib sheet to the test. You can **write** down anything on both sides of **one** letter-sized paper. No circulation during the test.

Assignments: (240 ~ 280 points) About 6 or 7 programming assignments will be given.

Attendance: (50 points) Attendances will be taken impulsively.

Pop quizzes: (50 points) Pop quizzes will be given impulsively in class.

Grading Policy:

Considering 650 points the perfect score, your grade is based on the scheme shown in the table.

I do not curve!!

Points	Grade	
540 ~ 650	A	Excellent
420 ~ 539	B	Good
300 ~ 419	C	Satisfactory
200 ~ 299	D	Passing
0 ~ 199	F	Failure