

Brief Syllabus of COSC 1337-01, Spring 2005
Introduction to Computer Science II (C++)
MWF 9:05 ~ 9:55 AM, Mase 111

The first lecture begins at 9:05 AM, January 19, 2005

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Office Hours: Tue & The 2:00 ~ 3:30 PM or by appointment

Topics:

This is a continuous course of CS1. We assume that students already have basic programming skill in JAVA. We will study more advanced features of programming languages in terms of C++. Also, we will shift the programming environment from MS Windows' IDE to Unix. The topics to be covered include the most important and basic features of C++ such as elementary data types, input/output, functions and the way they pass parameters, control structures, arrays, records and files I/O, string manipulation, pointers, modular design, and structured programming. Since C++ is an *object oriented* programming language, we will introduce some basic concepts of object-oriented programming such as *classes*, *public and private functions*, *friend classes*, *inheritance*, and *polymorphism*. However, we will not particularly focus on such programming paradigm due to the time constraint. Also, we will learn how to analyze the complexity of programs in order to give students a taste of data structures and algorithm analysis.

Prerequisites: COSC 1336 (or 1373).

Textbook: *Absolute C++*, by Walter J. Savitch, Addition Wesley Publishers, 2002

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: (210 ~ 240 points) About 7 or 8 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