CSC 340: Programming Methodology, Fall 2010
14:10--15:25, Tuesday and Thursday, TH331

Instructor: Hui Yang, Ph.D.
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Phone (office): 415/338-2221
Office hour: 4PM—5PM, Tuesday (or by appointment)

Course Prerequisite: A grade of C or better in CSC220--Data Structures, and CSC230—Discrete Mathematical Structures for Computer Science.

Textbook and Other Reading Materials
• Recommended for experienced C++ users: Stroustrup, Bjarne The C++ Programming Language
• Recommended for C++ beginners: Savitch, Walter, Problem solving with c++, 7th edition
• Recommended for Java programmers: Data Structures and Abstractions with Java, 2nd Edition, by Frank M. Carrano

Main Objectives:
• Introduction to advanced concepts in C++
• Students will develop several medium sized programs in C++
• Cover widely-used searching and sorting algorithms
• Cover commonly used graph algorithms
• Enhance the students’ programming skills

Recommended C++ IDEs (Integrated Development Environment):
• Microsoft Visual C++ (SFSU students can download a copy from the MSDN academic library. User authentication is required.)
• Command line option for Linux/Unix users: text editor and g++.

Requirements:
• Class participation: Students are expected to attend all lectures and actively participate the online discussion forum. Your in-class and online participation will be counted towards your final grade, with a weight of 3% and 2% respectively.
• Homework assignments and quizzes: Students will be given homework assignments (~10) and in-class quizzes (~5) throughout the semester.
  o Commenting programs is required in every coding assignment. The comments should explain the main purpose and implementation strategies of the codes and not be a reiteration of the source codes.
  o No late homework will be accepted.
• Turning in homework assignments: to get full marks, you need to submit both a hard copy and an electronic copy of each homework solution.
  o The hard copy must be handed in at the start of class on the due date including:
    ▪ A cover page with your name and the assignment number.
    ▪ A printout of all source files with comments.
    ▪ Sample output from the program.
  o The electronic copy must be submitted on iLearn by the due time. See the guidelines posted on iLearn on the steps and requirements for submitting homework through iLearn.
• **Missed quizzes, midterm exam(s) and final exam:** Make-up quizzes or exams can only be given in case of uncontrolled events (e.g., medical emergency), or if the dates conflict with your religious observances. In the former case, proof documents are required. In the latter case, it is your responsibility to notify the instructor within the first five weeks.

**Website / Discussion Forum:**

We use iLearn (https://iLearn.sfsu.edu) to host the course website. User authentication is required to access this website. You will automatically gain access to the course website if you are enrolled in the class. On this website, you will find lecture slides, assignments, supplementary materials, and an online discussion forum. It is your responsibility to check the website regularly.

Note that the discussion forum is not a substitute for class participation. Consider it a great resource for asking and receiving answers to many questions.

**FYI: Computer Science Departmental Policy for Missed Exams, Late Homework, and Course Withdrawal**

Generally, there will be no make-up exams and no incomplete grades given. If you have to miss an exam, you must notify the instructor before the exam. If any of the scheduled exams dates are in conflict with your religious observances, you must notify your instructor, in writing, during the first two weeks of the semester. If you have an acceptable, documented excuse, you may be given a make-up exam or be given the average score of other exams at the discretion of the instructor. Otherwise, a missed exam is graded zero points. Homework must be submitted in class and late homework cannot be accepted. Drop and withdrawal are student responsibilities. To avoid receiving the WU grade for non-attendance students must withdraw from class before the withdrawal deadline. Late withdrawal requests will not be approved. All student petitions that require multiple signatures are approved only if all levels approve them.

**Grades Weight Table:**

Class participation including online discussions on iLearn  
Quizzes  
Assignments (Commenting your code will count for 30% of assignment grade)  
Mid-term Exam  
Final Exam

**Bonus points:**

Throughout the semester, the instructor will assign 1-3 optional homework assignments for 1-3 bonus points. In addition, a maximum of 3 bonus points will be awarded at the end of the semester to those whose final exam grade is at least 10% higher than the midterm exam grade.

**Final Grading Schema:**

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