

A290/A590

Programming in C++

Instructor:

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Office Hours:

Time: MW, 16:00 - 17:30
Location: LH 415
Appointments are also encouraged, and should be made via email.

Schedule:

Lecture: Monday, 18:00 - 19:10, Wednesday, 18:00 - 19:10

Text:

Savitch, *Problem Solving with C++*, 6/ed, Addison-Wesley, 2006.
Oualline, *Practical C++ Programming*, 2/e, O'Reilly, 2003 (recommended)

Course Objectives:

This course is designed to cover standard imperative and object oriented programming in C++. This will include designing custom data types, using custom data types and predefined objects.

We will discuss the differences between C and C++ as appropriate, and make use of C++ syntax and libraries. It is assumed that a basic C knowledge is had by all students in the class.

Grading:

Your grade will be a simple total points system, with more important assignments given correspondingly more points.

Attendance is mandatory, and a viable excuse will be needed for each absence after the first. Participation counts for 15% of your grade, and not attending class will cut into that.

Please note there is no final exam. There is, however, a final lab, which will cover concepts from the class which I felt that you should take away. You are required to get a passing grade on this final lab in order to get an A in the course.

Labs:

All documentation for the labs will be posted at the latest by the night prior to lab by 11:59:59 PM. Questions are encouraged, and while I will never just hand you the solution, I am always willing to point you in the right direction. Questions can be asked in class, sent via email, discussed during office hours, etc. Labs will be due the following week, the day prior to the lab at 11:59:59 PM.

As will be stated in classes, the due dates are recommendations. I'd rather you complete the work and hand it in late than turn in incomplete work. That said, work that is handed in after the due date will not receive immediate feedback. Late work will be returned once: at the end of the 8 weeks. For those of you who desire rapid feedback, this should provide incentive to hand in the work by the recommended due dates.

Grading will be based on correctness, clarity, documentation (quality and quantity), and style; presentation counts. You can have the most efficient and elegant solution to a given problem, but if I can't read the code, that doesn't count for much. Code should be commented, and should be written in a readable style.

No credit will be given for code which does not compile. Please ensure that your code will

compile on the burrow machines prior to submitting it. The exception to this rule is that if a README file is included, which explains the *reasons* the code does not compile. I understand that, sometimes, errors can be very difficult to eliminate.

NB: WORK MUST BE YOUR OWN, AND NO ONE ELSE'S. While I encourage you to discuss problems with your peers, your work must be your own. If you *do* decide to work together, you will get at most 60% of the points possible, and then only if you notify me that you are doing so. Otherwise, I will assume there was cheating going on, and act accordingly.

Participation:

As you can see, participation is worth a lot. Please participate in class, so that you can earn these points. Participation can take the form of asking questions, answering questions, coming to office hours, asking questions via email, etc. So long as it is clear that you are actively engaged with the class, you will get participation points.

Exceptions to the Rules:

Almost all rules are designed to be broken under the correct set of extraordinary circumstances. I strongly recommend your communicating to the instructor at the earliest possible time any circumstances you feel warrant an exception (e.g. illness, religious holiday, personal and/or family crisis, etc.). Remember that going into hiding is probably the worst strategy you can adopt! There is a direct relationship between the amount of sympathy you can anticipate from an instructor and the amount of time remaining until a given assignment's due-date. Finally, remember that if you are uncomfortable discussing something directly with me (e.g. personal problems) you can always contact someone in the Dean of Students Office and have that individual contact me.

Please note, all policies within the Computer Science Department Statement on Academic Integrity will be enforced. Please read it if you have not already done so.