

CS 3060 Object-Oriented Programming Using C++ Fall 2012

Class schedule: MW 10:50AM-12:05PM Engineering Room: 101

Final Exam Schedule: Dec 10 (Mon), 10:50AM-1:20PM

Instructor: Qing Yi (qyi@uccs.edu)

Office: ENG 176

Office Hours: MW: 9:50-10:50am, by appointment

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| Course description | The principal goals of this course are: 1) to gain skill and proficiency in using the C++ programming language, 2) to learn the fundamentals of object-oriented programming, 3) to exercise the C++ language in implementing a moderate sized software system designed with objects. |
| Prerequisites | CS 2060 (Programming with C) and CS 2080 (Programming with UNIX). |
| Textbook | <u>Programming Principles and Practice Using C++</u> , ISBN 0-321-54372-6. by Bjarne Stroustrup, Addison Wesley. |
| Reference books | <u>The C++ Programming Language</u> , 3rd Edition, ISBN 0-201-88954-4. by Bjarne Stroustrup, Addison Wesley. <u>Design Patterns</u> , ISBN 0-201-63361-2. by Gamma, Helm, Johnson, and Vlissides, Addison Wesley. |
| Requirements | This will be a project-oriented course, with a heavy emphasis on proper uses of the various language features of C++ to implement a selected set of data structures and algorithms, to promote modular and extensible software development, and to reason about the correctness and efficiency of software implementations. Weekly projects will be assigned and graded based on the correctness and performance of the developed software. Exams will be given to test your skills in developing correct, efficient, modular, and extensible object-oriented programs via C++. |
| Grading | Exams: 40%; Projects: 40%; Class attendance and quizzes: 5% Programming competition: 15%. |
| Attendance | You are responsible for all presented materials and assigned readings in class. Class attendance will be taken and will count towards your final grade. |
| Collaboration Policy | Each project will be assigned either as an individual project, in which case you are supposed to work on it alone, or as a collaborative project, where you are required to find partners. In any case, you need to indicate what part you have worked on and what assistance you may have received. |
| Email Policy | You are encouraged to use a group emailing list created for our class to post questions about lectures, projects and course organization. You may also |

directly email the instructor with your questions. Always leave a reasonable time period (1-24 hours on workdays) for your question to get answered. Last minute questions (those sent the night before project is due) may not be answered in time.

Extra Credit

Over the course of the semester, extra-credit assignments may be given to help you improve your grade. These extra-credit assignments will count towards your final grade in various ways as indicated in the assignments.

If you are interested in undertaking additional assignments to improve your grade, consult with the instructor.