CS351: Programming III: C++
Course Syllabus - Spring 2013
Two Credit Hours
2:00-2:50pm MW, Lloyd Hall 16M
http://cs351.cs.ua.edu

Course Objectives:
After successfully completing this course, students will be able to
- Build large projects using production computer programming languages.
- Manage large programming projects.
- Use software tools to build and manage programming projects.

Course Description:
Programming using C++. Language concepts: Object-style programming and design. Software engineering
concepts: managing multi-module projects and automated program testing.

Prerequisites: CS 250 or ECE 285.

Text:
- Deitel et al, Visual C++ .NET How to Program, Prentice Hall (not required).
- Fraser, Pro Visual C++/CLI and the .NET 3.5 Platform, Apress (not required).

Instructors:
- Jingyuan (Alex) Zhang, Ph.D.
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  - Office Hours: 3:00-4:00pm MW

Attendance Policy:
- Students are required to attend all class meetings. The final grade is partially based on class participation.

Grading Policy:
- Mid-term (24%), and final (40%).
- About 6 assignments and projects (36%).
- Quizzes and class participation (5%).
- A student is allowed to make up assignments, projects, or exams missed only if he/she has an
  excusable reason.

Topics to be covered:
- Basic Data Types and Operations
- Control Structures
- Methods/Functions
- Object-oriented Programming
- Graphics
- Event-driven Programming
- GUI Components
- Multithreading
- Files and Streams
- Networking