## Teaching Outline

### Objective

This course covers C and C++ languages. First, we begin from C language and introduce the basic concept of how to write a program using C. The common and useful basic control structures, i.e., if-else, loop, recursion, function call, structures, etc., would be described one by one. Second, we introduce the basic concept of object, i.e., how to implement a class using C++. The advanced topics, e.g., polymorphism and inheritance, would be also included in this course. After this course, students are suggested to pass the department evaluation about their programming ability.

### Pre Course

C language is one of the most common high-level programming languages. C++ language and C# language are the evolution of C. Learning C language not only understand the corresponding syntax, but also realize how to convert solutions into programs. Once students can write their own programs using C language, they can be independent of learning other languages based on the process of C language training.

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### Reference

2007/9/20 Introduction 李昭賢
2007/9/27 C Language – Hello World! 李昭賢
2007/10/4 Keywords、Operators、Declaration、I/O 李昭賢
2007/10/11 If-Else、Switch 李昭賢
2007/10/18 While、Do While 李昭賢
2007/10/25 For 李昭賢
2007/11/1 Function 李昭賢
六、教學進度 (Syllabi)

2007/11/8   Review  李昭賢
2007/11/15  Midterm  李昭賢
2007/11/22  Recursion  李昭賢
2007/11/29  Structure  李昭賢
2007/12/6  String and File I/O Operations  李昭賢
2007/12/13  C++ Language – I/O streams  李昭賢
2007/12/20  Class  李昭賢
2007/12/27  Inheritance  李昭賢
2008/1/3  Polymorphism  李昭賢
2008/1/10  Review  李昭賢
2008/1/17  Final Exam  李昭賢

七、評量方式 (Evaluation)

八、講義位址 (http://)

九、教育目標