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THE CHINESE UNIVERSITY OF HONG KONG Print Course Catalog Details

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Academic Org: Dept of Computer Sci & Engg - Subject: Computer Science

Course: CSCI1020 Course ID: 002554 Eff Date: 2022-07-01 Crse Status: Active Apprv. Status: Approved [Course Rev]

Hands-on Introduction to C++ 高級程序設計語言C++實用介紹

This course aims to provide an intensive hands-on introduction to the C++ programming language. Topics include the basic C++ language syntax, variable declaration, basic operators, program flow and control, defining and using functions, file and operating system interface. Specific key features of the C++ programming language such as object-oriented methodology, class templates, encapsulation, inheritance, polymorphism, etc. will be highlighted.

本科旨在密集介紹階程序設計語言C++。包括基本階程序設計語言C++的語法、變數申明、基本運算符、程序編寫流程及控制、函數定義及應用、文件及操作系統接口。科目亦會介紹階程序設計語言C++的特性,例如面向對象的方法、類別模板、及其概念如封裝、繼承、多熊性等。

Grade Descriptor:

EXCELLENT – exceptionally good performance and far exceeding expectation in all or most of the course learning outcomes; demonstration of superior understanding of the subject matter, the ability to analyze problems and apply extensive knowledge, and skillful use of concepts and materials to derive proper solutions.

有關等級說明的資料,請參閱英文版本。

В

GOOD - good performance in all course learning outcomes and exceeding expectation in some of them; demonstration of good understanding of the subject matter and the ability to use proper concepts and materials to solve most of the problems encountered.

有關等級說明的資料,請參閱英文版本。

C

FAIR - adequate performance and meeting expectation in all course learning outcomes; demonstration of adequate understanding of the subject matter and the ability to solve simple problems.

有關等級說明的資料,請參閱英文版本。

D

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MARGINAL - performance barely meets the expectation in the essential course learning outcomes; demonstration of partial understanding of the subject matter and the ability to solve simple problems.

有關等級說明的資料,請參閱英文版本。

F

FAILURE - performance does not meet the expectation in the essential course learning outcomes; demonstration of serious deficiencies and the need to retake the course.

有關等級說明的資料,請參閱英文版本。

Equivalent Offering:

Units: 1 (Min) / 1 (Max) / 1 (Acad Progress)

Grading Basis: Graded **Repeat for Credit:** Ν **Multiple Enroll:** Ν

Course Attributes:

Topics:

COURSE OUTCOMES

Learning Outcomes:

- 1. Be able to write, compile and execute Standard C++ programs
- 2. Be able to make use of C++'s object-oriented methodology
- 3. Be able to develop object-oriented program using classes, inheritance, encapsulation, and polymorphism

Course Syllabus:

This course aims to provide an intensive hands-on introduction to the C++ programming language. Topics include the basic C++ language syntax, variable declaration, basic operators, program flow and control, defining and using functions, file and operating system interface. Specific key features of the C++ programming language such as object-oriented methodology, class templates, encapsulation, inheritance, polymorphism, etc. will

be highlighted.

Assessment Type: : 50% Others

> Short answer test or exam : 50%

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Feedback for Evaluation:

- 1. Course evaluation and questionnaire
- 2. Results of assignments and examination
- 3. Question-and-Answer sessions during class
- 4. Student consultation during office hours or online

Required Readings:

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Recommended Readings:

- 1. Problem Solving with C++ (6th edition), Walter Savitch, Addison-Wesley. 2006 2. The C++ Programming Language (3rd Edition), Bjarne Stroustru, Addison-Wesley
- 3. C++ Primer Plus (5th Edition), Stephen Prata, Sams

OFFERINGS

1. CSCI1020 Acad Organization=CSD; Acad Career=UG

COMPONENTS

LAB : Size=30; Final Exam=N; Contact=2 LEC : Size=30; Final Exam=Y; Contact=1

ENROLMENT REQUIREMENTS

1. CSCI1020 Enrollment Requirement Group:

Not for students who have taken CSCI1120 or 1520 or 1540 or ESTR1100.

New Enrollment Requirement(s):

Exclusion = no change

CAF

eLearning hrs for blended cls 0 No. of micro-modules 0

Research components (UG) 0%

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