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## THE CHINESE UNIVERSITY OF HONG KONG Print Course Catalog Details

May 10, 2023 14:13:00 PM

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

| Course: CSCI1120                | Course ID: 002560 | Eff Date: 2022-07-01 | Crse Status: Active | Apprv. Status: Approved | [New Course] |
|---------------------------------|-------------------|----------------------|---------------------|-------------------------|--------------|
| Introduction to Computing Using | C++ 計算導論 (C++語言)  |                      |                     |                         |              |

This course introduces the computer-oriented problem-solving methods and algorithm development; object oriented programming concepts; concepts of abstract data types; simple data structures; illustrative applications. The C++ programming language will be used.

本科介紹面向計算機的問題求解方法及算法開發;面向對象程序設計概念;抽象數據類型概念;簡單數據結構;應用示例。本科使用高級程序設計語言"C++"講授。

#### 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

А

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。

С

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

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:

Units:3 (Min) / 3 (Max) / 3 (Acad Progress)Grading Basis:GradedRepeat for Credit:NMultiple Enroll:NCourse Attributes:

# Topics:

|                    | CO  | URSE OUTCOMES  |  |  |  |
|--------------------|---|--|--|--|--|
| Learning Outcomes: |   |  |  |  |  |
|                    | <ol> <li>Be able to write, understand, compile and deb</li> <li>Be able to write programs using the basic program and arrays;</li> <li>Be able to perform dynamic memory allocatic</li> <li>Be able to implement and instantiate classes, a</li> <li>Understand the basic concept of data encapsul</li> </ol> | ug C++ programs<br>gramming elements such as variables, data types, selection and looping control structures, functions,<br>on and manage pointers;<br>and invoke methods;<br>lation, polymorphism, and inheritance; |  |  |  |
| Course Syllabus:   | This course introduces the computer-oriented problem-solving methods and algorithm development; object oriented programming concepts; concepts of abstract data types; simple data structures; illustrative applications. The C++ programming language will be used.  |  |  |  |  |
| Assessment Type:   | Others<br>Short answer test or exam   | : 30%<br>: 70%   |  |  |  |

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|---|---|-----------------------------|--|--|--|--|
| Feedback for Evaluation:                              | <ol> <li>Midterm and final course evaluation;</li> <li>Midterm exam and final exam;</li> <li>In class informal survey;</li> </ol>   |                             |  |  |  |  |
| Required Readings:                                    | nil   |                             |  |  |  |  |
| Recommended Readings:                                 | <ol> <li>C By Dissection by Al Kelley and Ira Pohl 4th ed., Addision-Wesley Publishing Co. Inc.</li> <li>C: How to program by H.M. Deitel &amp; P.J. Deitel 3rd ed., Prentice Hall</li> <li>The C Programming Language by Brian W. Kernighan &amp; Dennis M. Ritchie, Prentice Hall.</li> </ol> |                             |  |  |  |  |
|   | OFFERINGS   |                             |  |  |  |  |
| 1. CSCI1120   | Acad Organization=CSD; Acad Career=UG   |                             |  |  |  |  |
| COMPONENTS  |   |                             |  |  |  |  |
|   | LEC : Size=30; Final Exam=Y; Contact=3<br>TUT : Size=30; Final Exam=N; Contact=1  |                             |  |  |  |  |
| 1. CSCI1120   | ENROLMENT REQUIREMENTS<br>Enrollment Requirement Group:<br>Not for students who have taken AIST1110 or CSCI1020 or CSCI1110 or CSCI1130 or CSCI1510 or CSC<br>CSCI1530 or CSCI1540 or ESTR1100 or ESTR1102<br>New Enrollment Requirement(s):<br>Exclusion = no change                           | 11520 or                    |  |  |  |  |
| CAF   |   |                             |  |  |  |  |
| eLearning hrs fo<br>No. of micro-mo<br>Research compo | r blended cls 0<br>dules 0<br>onents (UG) 0%  |                             |  |  |  |  |