THE CHINESE UNIVERSITY OF HONG KONG Print Course Catalog Details

May 10, 2023 14:15:06 PM

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

Course: CSCI1540	Course ID: 010473	Eff Date: 2022-07-01	Crse Status: Active	Apprv. Status: Approved	[Course Rev]
Fundamental Computing with C++	- 基本計算學 (C++語言)				

This course introduces fundamental computing principles, problem-solving methods and algorithm development, simple data structures, illustrative applications. The C++ programming language will be used.

本科介紹基本計算學原理、問題求解方法及算法開發、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:			
	At the end of the course of studies, students will 1. write, understand, compile and debug C++ pro 2. write programs using the basic programming of 3. understand the basic concepts of call-by value 4. perform dynamic memory allocation and man 5. write applications using elementary data struc	have acquired the ability to ograms; elements such as variables, data types, selection and looping control structures, functions, and arrays; , call-by-reference and function overloading; age pointers; tures such as 2-D array and strings, etc.;	
Course Syllabus:	This course introduces fundamental computing principles, problem-solving methods and algorithm development, simple data structures, illustrative applications. The C++ programming language will be used.		
Assessment Type:	Essay test or exam Others	: 60% : 40%	

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Feedback for Evaluation:	 Midterm and final course evaluation Exam In class informal survey 						
Required Readings:	nil						
Recommended Readings:	 Walter Savitch, Problem Solving with C++ (6th edition), Addison-Wesley. 2006 Bjarne Stroustrup, The C++ Programming Language (3rd Edition), Addison-Wesley. Stephen Prata, C++ Primer Plus (5th Edition), Sams. 						
	OFFERINGS						
1. CSCI1540	Acad Organization=CSD; Acad Career=UG						
	COMPONENTS						
	LEC : Size=30; Final Exam=Y; Contact=3 TUT : Size=30; Final Exam=N; Contact=1						
	ENROLMENT REQUIREMENTS						
1. CSCI1540	 Enrollment Requirement Group: Not for students who have taken AIST1110 or CSCI1020 or CSCI1110 or CSCI1120 or CSCI1130 or CSC CSCI1520 or CSCI1530 or ESTR1100 or ESTR1102 New Enrollment Requirement(s): Exclusion = no change 	11510 or					
CAF							
eLearning hrs fo No. of micro-mo Research compo	r blended cls 0 dules 0 onents (UG) 0%						