

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

**Course:** CSC11030      **Course ID:** 002555      **Eff Date:** 2022-07-01      **Crse Status:** Active      **Apprv. Status:** Approved      **【Course Rev】**  
Hands-on Introduction to Java 高級程序設計語言JAVA實用介紹

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

本科旨在密集介紹高階程序設計語言Java。包括基本高階程序設計語言Java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。科目亦會介紹高階程序設計語言Java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、多態性等。

**Grade Descriptor:**

A

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。

B

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

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:** N

**Multiple Enroll:** N

**Course Attributes:**

**Topics:**

## COURSE OUTCOMES

**Learning Outcomes:**

1. Be able to write, compile and execute Java programs
2. Be able to make use of Java's object-oriented methodology
3. Be able to design and create applications using Java Foundation Classes (JFC)
4. 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 Java programming language. Topics include the basic Java language syntax, variable declaration, basic operators, program flow and control, defining and using functions, file and operating system interface. Specific key features of the Java programming language such as object-oriented methodology, class templates, encapsulation, inheritance, polymorphism, etc. will be highlighted.

**Assessment Type:**

Others : 50%

Short answer test or exam : 50%

**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. Introduction to Java Programming: Fundamentals First (6th Edition) (GOAL Series) (Paperback), Daniel Liang, Prentice Hall, 2006

**OFFERINGS**

1. CSCI1030 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. CSCI1030 **Enrollment Requirement Group:**  
Not for students who have taken CSCI1130 or 1530 or ESTR1102.

**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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