國立東華大學

課　　綱　Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese	程式設計（二）				
英文課程名稱 Course Name in English	Introduction to Computer Programming（Ⅱ）				
科目代碼 Course Code	CSIEB0040	班　別 Degree	學士班 Bachelor's		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時　數 Hour(s)	3.0
先修課程 Prerequisite					

課程目標
Course Objectives

介紹程式設計基本觀念、方法與程式發展技術。
In this course, the teacher will introduce the basic concepts and methods of programming and its development techniques.

系教育目標
Dept.'s Education Objectives

1	具備學科知識，養成專業技能 Acquire academic knowledge, develop professional skills
2	學習創新思考，分析解決問題 Inspire innovative thinking, increase analytical problem solving ability
3	培養團隊精神，學習溝通合作 Promote teamwork spirit, encourage coordination and cooperation
4	提昇專業倫理，承擔社會責任 Sublimate professional ethics, engage social responsibility
5	涵育人文素養，開拓國際視野 Cultivate humanities, broaden global perspectives

系專業能力 Basic Learning Outcomes		課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	資訊專業終身學習能力 Ability of lifetime learning in information profession	●
B	實驗驗證資訊科學能力 Ability of validate experimental result validation in information science field	●

C	資訊工具整合運用能力 Ability of integrated applications of information technology	●
D	資訊系統應用設計開發能力 Ability of information application system design and development	●
E	團隊合作溝通協調能力 Ability of teamwork, communication, and coordination	○
F	資通訊科技問題解決能力 Ability of problem solving regarding information and communication technology	○
G	瞭解資訊科技多元影響能力 Ability to understand information technology's multiple influences	●
H	肩負資訊人社會責任能力 Ability of bearing the social responsibilities being among information professionals	

圖示說明Illustration ：● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱
Course Outline

1.物件導向觀念Object-Oriented Concepts
2.類別與資料抽象化Classes and Data Abstraction
3.字串與陣列物件String and Array Objects
4.動態陣列Dynamic Arrays
5.運算子重載Operator Overloading
6.繼承 Inheritance
7.多形與虛擬函式Polymorphism and Virtual Functions
8.樣板與標準樣板程式庫Templates and Standard Template Libraries
9.友伴函式Friends
10.例外處理Exception Handling
11.資料結構概念Data Structures Concepts

資源需求評估（師資專長之聘任、儀器設備的配合···等）
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

Lecture and Program Implementation.
The Maximum number of students is 40.
Grading & Assessments:
Midterm Exam, Final Exam, and Homework and Assignments

其他
Miscellaneous