

朝陽科技大學 098學年度第1學期教學大綱  
Data Structure 資料結構

當期課號	3674	Course Number	3674
授課教師	林芳昌	Instructor	LIN,FANG CHANG
中文課名	資料結構	Course Name	Data Structure
開課單位	資訊管理系(二進)四A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程將探討抽象的資料組合觀念，進而說明如何以程式語言將這些觀念具體化，以模擬出電腦內部真正處理資料的方式，其所涵蓋的範圍包含陣列、鏈結串列、堆疊、佇列、二元樹、圖形結構、資料排序及資料搜尋等。	Objectives	This course will focus on data structures for manipulating them. Data structures for storing information in tables, lists, trees, queues and stacks will be covered. Some basic graph, sorting and searching algorithms will also be discussed.
教材	"Fundamentals of Data Structures in C++," Second Edition, Ellis Horowitz, Sartaj Sahni, and Dinesh P. Mehta, Silicon Press, 2007.	Teaching Materials	"Fundamentals of Data Structures in C++," Second Edition, Ellis Horowitz, Sartaj Sahni, and Dinesh P. Mehta, Silicon Press, 2007.
成績評量方式	1. 作業與平時成績 40-60% 2. 期中考 20-30% 3. 期末考 20-30%	Grading	1. Exercises and Participation 40-60% 2. Midterm Exam. 20-30% 3. Final Exam. 20-30%
教師網頁	<a href="http://www.cyut.edu.tw/~fclin">http://www.cyut.edu.tw/~fclin</a>		
教學內容	本課程介紹以下資料結構的主題： 1. Array 2. Stacks and Queues 3. Linked Lists 4. Trees 5. Graphs 6. Sorting 7. Searching	Syllabus	This course will introduce the techniques used on data structures, including the following topics. 1. Array 2. Stacks and Queues 3. Linked Lists 4. Trees 5. Graphs 6. Sorting 7. Searching

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