

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	2835	Course Number	2835
授課教師	洪若偉	Instructor	HUNG,RUO WEI
中文課名	資料結構	Course Name	Data Structure
開課單位	資訊工程系(四日)二C	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程主要講述有關資料的處理及儲存方式。學生在本課程中，將可學到以下幾個主題：1.陣列 2. 堆疊 3. 串列 4. 樹 5. 圖形理論 6. 排序。學生學完本課程後可利用本課程內的知識對資料進行更有效率的處理。	Objectives	"The goal of this course is to provide the students how to store data with how to process data. The covered issues in this course includes 1. array 2. stack 3. link list 4. tree 5. graph theory 6. sorting. After this course, the students can process the data more efficient."
教材	教科書(Textbook): (1) Ellis Horowitz, Sartaj Sahni, and Dinesh P. Mehta, "Fundamentals of Data Structures in C", 2nd Ed., Silicon Press, 2007. (開發圖書代理) (2)投影片(Slides) 參考書目(Reference Books): (1) Ellis Horowitz, Sartaj Sahni, and Susan Anderson-Freed, "Fundamentals of Data Structures in C", 2nd Ed., Silicon Press, 2008. (開發圖書代理) (2)廖榮貴工作室, "資料結構與演算法", 文魁資訊股份有限公司. (3)林貞嫻, "資料結構－使用C語言", 碁峰出版社. (4)Dev C++: http://www.bloodshed.net/	Teaching Materials	Textbook: (1)Ellis Horowitz, Sartaj Sahni, and Dinesh P. Mehta, "Fundamentals of Data Structures in C", 2nd Ed., Silicon Press, 2007. (開發圖書代理) (2) Slides Reference Books: (1)Ellis Horowitz, Sartaj Sahni, and Susan Anderson-Freed, "Fundamentals of Data Structures in C", 2nd Ed., Silicon Press, 2008. (開發圖書代理) (2)廖榮貴工作室, "資料結構與演算法", 文魁資訊股份有限公司. (3)林貞嫻, "資料結構－使用C語言", 碁峰出版社. (4)Dev C++: http://www.bloodshed.net/
成績評量方式	1. 隨堂考n次: 20% 2. 期中考(Midterm Exam): 35% 3. 期末考(Final Exam): 35% 4. 小考(Quizzes): 20% 5. 課程參與(Participation): 5% Notes: (1)曠課超過三次(含), 不加分 (2)上課行為不檢者, 不加分 (3)不定期點名	Grading	1. Course exams: 20% 2. Midterm exam: 35% 3. Final exam: 35% 4. Quizzes: 20% 5. Course participation: 5%
教師網頁	http://www.cyut.edu.tw/~rwhung		
教學內容	本課程的目標是讓學生瞭解資料結構與演算法的重要概念, 包括: 結構化程式設計、演算法分析、陣列、堆疊、佇列、鏈結串列、樹結構、圖形、搜尋、排序、雜湊等。更甚者, 我們將著重在學生的邏輯能力之培養。	Syllabus	This goal of this course is to introduce the students to the most important topics of Data Structure and Algorithm, such as Structural programming design, Algorithm analysis, Array, Stack, Queue, Linked list, Trees, Graphs, Searching, Sorting, and Hashing etc. Moreover, we concentrate on the teaching of logic.

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