朝陽科技大學 097學年度第1學期教學大綱
Data Structure 資料結構

當期課號	2763	Course Number	2763
授課教師	陳忠信	**Instructor**	CHEN,JONG SHIN
中文課名	資料結構	**Course Name**	Data Structure
開課單位	資訊與通訊系(四日)二A	**Department**	
修習別	必修	**Required/Elective**	Required
學分數	3	**Credits**	3
課程目標	"本課程是訓練學生能夠了解程式語言中資料的處理及儲存方式。要達成這目標，學生將學習： 1.針對資料的物件能動態的配置和清空計憶體。2.能夠使用指標或其它方式來建構陣列、堆疊、佇列、串列和樹的結構。3.能夠創造和維護陣列、堆疊、佇列、串列和樹。 4.圖學理論中重要應用。 5.能夠了解不一樣的排序方法並且互相比較。"	**Objectives**	"The goal of this course is to trains the students can understand how to store data with how to process data in programming languages. To achieve the goal, students will learn 1. To allocate and free memory dynamically for data objects. 2. To form the structure of arrays, stacks, queues, linked lists, and trees using pointers or other others. 3. To create and manipulate the structures of arrays, stacks, queues, linked lists, and trees. 4. Various important applications of graph theory 5. To understand the various sorting methods and to compare with others."
教材		**Teaching Materials**	
成績評量方式	Attendance, Homework, and Quiz (40%); Midterm Exam (30%); Final Exam (30%)	**Grading**	Attendance, Homework, and Quiz (40%); Midterm Exam (30%); Final Exam (30%)
教師網頁	http://www.cyut.edu.tw/~jschen26		
教學內容	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。	**Syllabus**	"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. "