

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

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| 當期課號 | 2913 | Course Number | 2913 |
| 授課教師 | 黃政治 | Instructor | HUANG,CHENG CHIH |
| 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記憶體。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 | 戴顯權，"資料結構"，旗標公司 | Teaching Materials | Fundamentals of Data Structures, Flag Co. |
| 成績評量方式 | 期中考30% 期末考30% 小考及出席成績 40% | Grading | Midterm 30% Final 30% Quiz/Attendance 40% |
| 教師網頁 | - | | |
| 教學內容 | 包括鍵結"陣列"(array)、串列(linked list)、堆疊(stack)、佇列(queue)、樹狀結構(tree structure)以及圖形與網路(graphic and network)...等。 | Syllabus | The topics to be discussed include array、linked list、stack、queue、tree structure、graphic and network。 |

尊重智慧財產權，請勿非法影印。