

97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	演算法	Serial No. / ID	1666 / IMM3040
Dept.	資訊管理學系	School System / Class	大學日間部3年1班
Lecturer	曹偉駿	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(二)34 / B201 (四)8 / B201	Language	Chinese

Introduction
<ol style="list-style-type: none">1. Use the technique of information management to design and practice systems2. Use the theory to deduct some unknown facts3. Be able to design and practice the project of improving the problems

Outline
<ol style="list-style-type: none">1. Introduction to Computer Algorithms: Why Study Algorithms?2. Elementary Data Structures: Array and Linked List3. Tree and Graph4. Divide-and-Conquer Techniques5. The Greedy Method6. Recursive Algorithms7. Dynamic Programming8. Sorting9. The Searching Strategies10. Prune-and-Search11. NP-Hard Problems and NP-Completeness

Prerequisite
<ol style="list-style-type: none">1. Programming Language2. Data Structures