

# 101-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	圖形理論	Serial No. / ID	0870 / IFI3021
Dept.	資訊工程學系	School System / Class	大學日間部4年3班
Lecturer	洪春男	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	Yes
Time / Place	(四)234 / H569	Language	Chinese

## Introduction

The student should gain an understanding of the fundamental concepts of graph theory.

## Outline

1. Introduction to Graph Theory
2. Basic Concepts in Graph Theory
3. Trees and Forests
4. Spanning Trees
5. Fundamental Properties of Graphs and Digraphs
6. Connectivity and Flow
7. Planar Graphs
8. Graph Coloring
9. Independence, Dominance, and Matchings
10. Graph Algorithms

## Prerequisite

Discrete Mathematics and Algorithms