

## 98-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	空氣動力學	Serial No. / ID	2335 / MAI3064
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年4班
Lecturer	蔡明訓	Full or Part-time	兼任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(五)234 / H443	Language	Chinese

Introduction
The objective of this course is to help students establish fundamental knowledge of Aerodynamics. It mainly contains the following topics: fundamental fluid mechanics principles, incompressible inviscid flow theory, 2D airfoil aerodynamics, theories and analytical methods for 3D finite wings, lift, drag, torque, and wing performance.

Outline
1. Fundamental Principles and Governing Equations of Fluid Mechanics 2. Inviscid Flow Theories 3. 2D Thin Airfoil Theories 4. Vortex Panel Method 5. Finite Wing Aerodynamics 6. Lift, Drag, Torque, and Wing Performance

Prerequisite
Fluid Mechanics, Engineering Mathematics (1 and 2)