

97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	流體力學	Serial No. / ID	0539 / MAI2007
Dept.	機械與自動化工程學系	School System / Class	大學日間部3年4班
Lecturer	謝其源	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	NO
Time / Place	(三)4 / H345 (五)56 / H345	Language	Chinese

Introduction
Course objectives: 1. To learn fundamentals of fluid mechanics such as fluid properties, flow types, fluid statics and dynamics, and fluid motion de s c r i p t i o n. 2. To learn to use mathematics to describe flow phenomena, including differential volume and finite volume methods. 3. To learn conservation laws and use them in analyzing basic problems.

Outline
1. Introduction 2. Fluid Statics 3. Elementary Fluid Dynamics - The Bernoulli Equation 4. Fluid Kinematics 5. Finite Control Volume Analysis 6. Differential Analysis of Fluid Flow

Prerequisite
Calculus, Engineering Mathematics (I)