

102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	流體力學	Serial No. / ID	2125 / MAB3006
Dept.	機械與自動化工程學系	School System / Class	進修學士班3年1班
Lecturer	吳佩學	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(四)CDE / B204	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. Introduction to Differential Analysis of Fluid Flow	

Prerequisite	
Calculus, Engineering Mathematics (I)	