

# 102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	應用力學(一)	Serial No. / ID	1366 / MAV1005
Dept.	機械與自動化工程學系	School System / Class	四技部1年1班
Lecturer	吳佩學	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(二)2 / H343 (四)67 / H343	Language	Chinese

Introduction
<ol style="list-style-type: none"><li>1. Introduce basic concepts and principles of statics, such as units, force vectors, equilibrium of a particle, resultants of force system, and equilibrium of a rigid body. Teach students to understand basic concepts and to extend to practice problems.</li><li>2. Introduce applications of statics such as structure analysis, internal forces, so that students are able to further understand the connections between the principles and the practice.</li><li>3. Train students to own basic capability of learning Mechanics of Materials and Vibration courses in the future.</li></ol>

Outline
<ol style="list-style-type: none"><li>1. Force Vectors</li><li>2. Equilibrium of a Particle</li><li>3. Force System Resultants</li><li>4. Equilibrium of a Rigid Body</li><li>5. Structural Analysis</li><li>6. Internal Forces</li></ol>

Prerequisite
Mathematics and Physics (high school level)