

# 102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	材料科學與工程導論(二)	Serial No. / ID	0973 / MS12005
Dept.	材料科學與工程學系	School System / Class	大學日間部1年1班
Lecturer	何文福	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(一)6 / H444 (四)34 / H541	Language	Chinese

Introduction
The course introduces the basic principles in materials science and engineering related to materials structure, properties and processing. The goal of this course will provide students with the basic knowledge about diffusion, solidification, phase diagram and microstructure development during heat treatment. Also, introduce the practical applications and new development of engineering materials.

Outline
<ol style="list-style-type: none"><li>1. Diffusion in solids</li><li>2. Phase diagram</li><li>3. Iron-carbon phase diagram</li><li>4. Solidification and phase transformation</li><li>5. Heat treatment in iron and steel</li><li>6. Materials in biomedical applications</li></ol>

Prerequisite
Basic Physics and Chemistry