

# 100-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	腫瘤生物學	Serial No. / ID	0555 / MBI4002
Dept.	分子生物科技學系	School System / Class	大學日間部4年1班
Lecturer	蔡孟峰	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	Yes
Time / Place	(二)8 / J315 (三)34 / J315	Language	Chinese

Introduction
<p>The purpose of this course is to increase your knowledge of the principles of cancer biology with a background in cellular and molecular biology. The course addresses the following questions: What is cancer,. What causes cancer, How does cancer progress. The lectures include: DNA structure and stability, oncogenes and tumor suppressor genes, apoptosis, and metastasis. The focus of this course is on the basic science and research of cancer, with a particular emphasis on the exciting new treatment options that are emerging from the biotechnology and pharmaceutical industries.</p>

Outline
<ol style="list-style-type: none"><li>1. What is cancer</li><li>2. DNA Mutations vs. Repair</li><li>3. Growth Factor Signaling and Oncogenes</li><li>4. Growth Inhibition and Tumor Suppressor Genes</li><li>5. Apoptosis</li><li>6. Metastasis</li><li>7. Cancer in the future: focus on diagnostics and immunotherapy</li></ol>

Prerequisite
<ol style="list-style-type: none"><li>1. Biology</li><li>2. Molecular cell biology</li></ol>