

97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	生物晶片與感測器	Serial No. / ID	0528 / MBI4007
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	(一)34 / J307 (二)7 / J307	Language	Chinese

Introduction	
<p>This course is designed to provide students with the basic concepts of biochips and biosensors. They are applied in medical research and clinical diagnosis, food and environmental testing, and biotechnology applications. The lectures include: principle and application of the biochips and biosensors, DNA microarray, protein chip, cell-base microarray, Lab-on-a-chip, biosensing transducers, Biosensing elements and biosensors in disease detection.</p>	

Outline	
<p>The lectures include:</p> <ol style="list-style-type: none">1. Principle and application of the biochips and biosensors2. DNA microarray3. Protein chip4. Tissue chip5. Cell-base microarray6. Lab-on-a-chip,7. Biosensing transducers and biosensing elements8. Biosensors in disease detection.	

Prerequisite	
<ol style="list-style-type: none">1. Biology2. Biochemistry	