

## 97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	食品生物技術專論	Serial No. / ID	1849 / BTN1012
Dept.	生物產業科技學系碩士在職專	School System / Class	碩士在職專班1年2班
Lecturer	龔裕鴻	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(一)ABC / H571	Language	Chinese

Introduction
<p>A. Department of Bioindustry Technology education goals:</p> <ol style="list-style-type: none"> <li>1, training with food / specialty chemicals based biotech industry professional professionals</li> <li>2. nurture the biochemical basis of professional labor biotechnology industry professionals</li> <li>3. to nurture in the Management of the biotechnology industry based professionals</li> </ol> <p>B. Department of Biological Cultivation of Industrial Technology core competencies:</p> <p>Industrial Technology Department of Biology graduate students should have the following core competencies:</p> <ol style="list-style-type: none"> <li>1. biological basis of professional ability of Industrial Technology</li> <li>2. bio-industry expertise technology expertise group</li> <li>3. bio-diversified industrial technology interdisciplinary learning</li> </ol> <p>The subject curriculum objectives:</p> <ol style="list-style-type: none"> <li>1. to help students understand the variety of food technology used in modern biotechnology (A1, A2, B1, B2, B3)</li> <li>2. to help students understand the application of biotechnology to food technology advantages, features and points (A1, A2, B1, B2, B3)</li> <li>3. to enable students to understand biotechnology in food science and technology on the specific application and practice (A2, A3, B2, B3)</li> </ol>

Outline
<p>Introduction</p> <p>Genetic engineering and its application in food industry</p> <p>Genetic engineering and its application in food industry</p> <p>Enzyme engineering and its application in food industry</p> <p>Enzyme engineering and its application in food industry</p> <p>Enzyme engineering and its application in food industry</p> <p>Enzyme engineering and its application in food industry</p> <p>Fermentation Engineering and its Application in Food Industry</p> <p>Fermentation Engineering and its Application in Food Industry</p> <p>Fermentation Engineering and its Application in Food Industry</p> <p>Cell engineering and its application in food industry</p> <p>Cell engineering and its application in food industry</p>

Biotechnology Applications in Beverage Industry  
Biotechnology Applications in Beverage Industry  
Biosensor and its application in food industry  
Biosensor and its application in food industry  
Biotechnology in food industrial wastewater treatment applications  
Biotechnology in food industrial wastewater treatment applications

#### Prerequisite

General chemistry  
Microbiology  
Introductory biotechnology  
Food chemistry  
Food processing