

# 102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	植物遺傳工程學專論	Serial No. / ID	1986 / MBR5050
Dept.	分子生物科技學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	江主惠	Full or Part-time	專任
Required / Credit	Optinal / 2	Graduate Class	No
Time / Place	(一)34 / J505	Language	English

Introduction
This course is to introduce the application of plant genetic engineering and to understand the production of transgenic plant used in agriculture, foods, medicine, and industry. Students will also learn how to present a paper and to ask question for discussion.

Outline
<ol style="list-style-type: none"><li>1. Introduction-Integration and expression of an alien genes into plants</li><li>2. Transformation approach</li><li>3. Tools for genetic transformation</li><li>4. Regulation of heterologous gene expression</li><li>5. Crop improvement</li><li>6. Manufacture of value products</li><li>7. Benefits and risks of producing transgenic plants</li><li>8. Plant virus vectors for systemic expression of foreign genes in plants</li></ol>

Prerequisite
No.