

101-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	生物科技導論(一)	Serial No. / ID	2528 / MBI1028
Dept.	分子生物科技學系	School System / Class	大學日間部1年1班
Lecturer	游志文	Full or Part-time	專任
Required / Credit	Required / 2	Graduate Class	No
Time / Place	(一)34 / J218	Language	Chinese

Introduction

In recent years, biotechnology techniques have been developed rapidly and considered as essential tools for life science research. Besides, biotechnology techniques are also increasingly applied to food, agriculture, ornamental plants, energy, and pharmacy industry, i.e. an impact on our future life. This course will introduce students to the living world of life science and modern biotechnology. Therefore, the goal of this course is to help students to develop an understanding of life and modern biotechnology and learn about the world around them.

Outline

1. The Biotechnology Century and Its Workforce.
2. An Introduction to Genes and Genomes.
3. History of Genetic Manipulation: Recombinant DNA Technology.
4. Proteins as Products.
5. Microbial Biotechnology.
6. Agricultural Biotechnology.
7. Animal Biotechnology.
8. DNA Fingerprinting and Forensic Analysis.
9. Bioremediation.
10. Medical Biotechnology.
11. Ethics and Biotechnology.

Prerequisite

None