

## 99-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	生物技術概論	Serial No. / ID	0831 / MBI1005
Dept.	分子生物科技學系	School System / Class	大學日間部1年1班
Lecturer	張雲祥	Full or Part-time	專任
Required / Credit	Required / 2	Graduate Class	No
Time / Place	(三)34 / J120	Language	Chinese

### Introduction

Biotechnology-the use of living organisms or their products to enhance our lives and our environment-is a broad and increasingly complex discipline that encompasses many specialized areas. Our understanding of living organisms has been immensely deepened by the contributions that molecular biology and recombinant DNA methods have made to basic scientific research. We are able to isolate, analyze, and manipulate genes and alter the genetic makeup of living organisms. Cloning organisms has become almost routine, and stem cell research looks promising. In deed, biotechnology is revolutionizing agriculture and medicine.

### Outline

Biotechnology: old and new; From DNA to protein; Basic principles of recombinant DNA technology; Microbial, plant, animal, medical, and marine biotechnology; Genomics and beyond; DNA profiling, forensics, and other applications; regulation, patents and society.

### Prerequisite

Biology