

97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	環境微生物學	Serial No. / ID	0260 / BTI3030
Dept.	生物產業科技學系	School System / Class	大學日間部2年1班
Lecturer	吳建一	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(二)8 / P401 (四)56 / P401	Language	Chinese

Introduction
The functional role of microorganisms with ecologically and environmentally significance is conveyed through the instructor ' s lecture, student ' s presentation and group discussion on specific topics of environmental microbiology.

Outline
In this course, the instructor will firstly introduce the basic content of Environmental Microbiology, including the microbial properties, diversity, function and behavior of microorganisms in natural and engineering systems. In addition, a great emphasis is placed on the biological analytical tools with an aim at conveying research-orientated knowledge to the students. Then, several special topics such as Microorganisms and Metal Pollutants, Microbial Indicators for Water Quality, Microorganisms and Organic Pollutants-Bioremediation and Biodegradation, Microorganisms and Bioenergy, Microbial Consortia-Sludge and Biofilm, will be gave rise to the attention through the student ' s presentation in coupling with the intensive group discussion. The use of the internet, scientific journal articles and web-based tools as a valuable source of up-to-date information will be emphasized.

Prerequisite
microbiology