

102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	應用微生物	Serial No. / ID	2413 / BRI2050
Dept.	生物資源學系	School System / Class	大學日間部2年1班
Lecturer	張瑞芝	Full or Part-time	兼任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)789 / J109	Language	Chinese

Introduction	
This course will be aimed at teach 1) knowledge about microbes, 2) biochemistry, genetics and environmental science about the microbes, 3) microbes as a research tool, 4) application of microbes in medicine, agriculture, food industry, manufacturing process, environmental and plant protection, etc.	

Outline	
<ol style="list-style-type: none">1. Introduction (microbial classification name, application and research areas, outlook)2. Bacterial classification, structure, diversity3. Bacterial physiology and metabolism4. Coordination of bacterial and human5. Bacterial genetics, and genetic engineering products6. Cell product application environment / medicine / engineering in instances7. Midterm8. Physiology and classification of fungi, breeding and training9. Medical Mycology10. Food and application of fungi / mycotoxins11. Application of fungi in biotechnology12. Virus definitions, origins, structure and composition patterns13. The mechanism of viral infection and disease ecology14. Virus diagnosis, identification and detection prevention15. Application of biotechnology virus16. Final exam	

Prerequisite	
Basic biology	