

朝陽科技大學 092學年度第1學期教學大綱
Applied Microbiology 應用微生物學

當期課號	6227	Course Number	6227
授課教師	簡宣裕	Instructor	CHIEN,SHIUAN YUH
中文課名	應用微生物學	Course Name	Applied Microbiology
開課單位	應用化學系(二進)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標		Objectives	
教材	上課講授 本課程鼓勵同學提問或參與討論 DNA分子模型,投影片與錄影帶	Teaching Materials	Teaching and discussions at class, DNA molecular model, and vedio tapes
成績評量方式	期中考,期末考,二次小考以及一次專題報告(僅限工業微生物之應用)各占20%;此外,平時的上課期間則不定期點名當作加分依據(BONUS 10%),每點到一次名加學期總成績一分(上課睡覺者除外),另外,口頭專題報告與討論熱心或上課表現優秀者,也是加分的另一種項目.	Grading	The following examinations will deserve 20% of the final evaluation in the course-grading: (1). Mid-term examination (2). Final examination (3) Two tests between (1) and (2) (4) Oral presentation (for industrial microbiology ONLY). Besides, bonus credits with an additional 10% (in maximum) of the final course evaluation will given mainly based on the performance of course attendance, discussion and oral report.
教師網頁	-		
教學內容	本課程之目的在於提供瞭解的理論,背景與應用.一般而言,人們大都會將微生物視為不潔的、可怕的,它們無所不在也是肉眼所看不見的微小生物(註:肉眼不能看小於100 μ m的物體,即0.01cm);這些生物由於體型很小而必需藉助放大工具(如顯微鏡)來觀察,本課程特別強調的是原核細胞之細菌與真核細胞之真菌兩類.由於上課時數之限制,本課程將不涵蓋微生物之基因工程與重組DNA技術,此部份學生可藉由參與本系之專題討論以獲取相關資訊.	Syllabus	Small living creatures, called as microorganisms, interacted in numerous ways with human activities. This course, named as Applied Microbiology, will be designed to provide an appropriate balance between microbiological fundamentals and potential applications. The overall theme of this course is the relationship between microbes and our lifes. The relationship involved not only the harmful effects of certain microorganisms but also their beneficial effects. Special attention will be paid to bacteria (procaryote) and fungi (eucaryote). Due to time limitations, microbial genetics and recombinant DNA technology will not be covered in the class, however, students themselves are urged to gain wider microbiological background through the attendance in the microbiology-related seminar.

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