

朝陽科技大學 091學年度第2學期教學大綱
Special Topics in Applied Microbiology 應用微生物特論

當期課號	7214	Course Number	7214
授課教師	賴龍山	Instructor	LAI, LONG SHAN
中文課名	應用微生物特論	Course Name	Special Topics in Applied Microbiology
開課單位	應用化學系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	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100um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，由於其工業應用潛力，本課程特別強調的是真核細胞之放線菌與真菌兩類，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。	Objectives	This course, named as Special Topics on 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 lives. The relationship involved not only the harmful effects of certain microorganisms but also their beneficial effects. In the course, we primarily concentrate on actinomyces and fungi because of their potential applications in industry. 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.
教材	一般的上課方式採取同學對事先指定閱讀之內容作報告,再由老師作補充說明並提出問題討論,學期總成績依同學每節報告與討論來評定.期中考與期末考期間照常上課.	Teaching Materials	1. texts 2. transparency
成績評量方式	一般的上課方式採取同學對事先指定閱讀之內容作報告,再由老師作補充說明並提出問題討論,學期總成績依同學每節報告與討論來評定(除第一週全由老師報告外,若以17週計則每週6分,即每節上課表現最高2分).期中考與期末考期間照常上課.	Grading	Course grading will be based on the performance of the students in each class. There will be no Mid-term and final examination; meanwhile, the class will be normally held. Bonus credits with the maximum of 10% of the final course evaluation will given mainly based on questions raised and discussions.
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100um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，由於其工業應用潛力,本課程特別強調的是真核細胞之放線菌與真菌兩類.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	This course, named as Special Topics on 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 lives. The relationship involved not only the harmful effects of certain microorganisms but also their beneficial effects. In the course, we primarily concentrate on actinomyces and fungi because of their potential applications in industry. 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

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