朝陽科技大學 095學年度第1學期教學大綱
Enzymology 酵素學

當期課號	1598	Course Number	1598
授課教師	劉炳嵐	Instructor	LIU,BING LAN
中文課名	酵素學	Course Name	Enzymology
開課單位	應用化學系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程的目標是要讓學生對於酵素概念、酵素純化、酵素動力學、酵素催化反應、酵素抑制及酵素結構有基本的認識與了解，並且讓學生能夠熟悉蛋白質、二次代謝物的基本原理及應用，包括實際應用、治療及醫學有關之酵素研究的一些例子。	Objectives	This course intends to provide an introduction to the fundamental concepts in enzyme purification, mechanisms and kinetics, to the common methods for studying enzymes, and the current developments in the field. Give an approach to the study of the catalytic properties of enzymes and of the chemical basis of enzyme catalysis. The course also tries to provide an understanding of the principles and application of proteins, secondary metabolites and enzyme biochemistry in therapeutic applications and clinical diagnosis. The theoretical understanding of biochemical systems would certainly help to interpret the results of laboratory experiments.
教材	酶學 (陳石根、周潤琦) 九州圖書	Teaching Materials	Enzymology
成績評量方式	1.課堂表現 10% 2.作業 20% 2.期中考 30% 3.期末考 40%	Grading	1. lecture performance 10% 2. Assigement 20% 2. Middle test 30% 3. Final exan 40%
教師網頁	_		
教學內容	1. 蛋白質分離純化 2. 酵素動力學 3. 酵素固定化 4. 酵素作用的調節 5. 酵素的生物學	Syllabus	The topics of this lecture will be coveried the protein purification, kinetics characterisations, immobilization, regulation as well as its applications in the industrials.

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