

朝陽科技大學 094學年度第1學期教學大綱
Special Topics of Biochemistry 生物化學特論

當期課號	7175	Course Number	7175
授課教師	劉炳嵐	Instructor	LIU,BING LAN
中文課名	生物化學特論	Course Name	Special Topics of Biochemistry
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	生物化學是介於生物與化學之間的邊緣學科。它主要研究構成生物體的生物大分子的組成、結構、性質和生物學功能。經由課程的學習，學生能進一步瞭解這些生物大分子在細胞內分解和合成途徑及伴隨的能量轉換，遺傳資訊的傳遞和表達等，特別是在DNA的複製、轉錄、轉譯、修補及調控。透過對生物體的化學本質及其在生命活動過程中的化學變化規律學習，從而瞭解生物的生長、生殖、生理、遺傳、衰老、生命起源和進化等現象。	Objectives	The lecture topics covered DNA properties and protein biosynthesis. This will focus on DNA transcription, replication, repair as well as its regulation. A major goal of this course is to help students to master those concepts, and enable students to use them to approach both classical and novel biological problems.
教材	Principles of Biochemistry with a human focus (Garrett & Grisham, 2002) 偉明書局	Teaching Materials	
成績評量方式	1. 期中考 30% 2. 期末考 40% 3. 口頭報告 30%	Grading	1. Middle test 30% 2. Final exam 40% 3. Oral presentation 30%
教師網頁	-		
教學內容	本課程將以探討基因與蛋白質合成相關課程為主，包括DNA之基本特性、複製、修補與變異；基因表達之調控與蛋白質之生合成。	Syllabus	The lecture topics covered DNA properties and protein biosynthesis. This will focus on DNA transcription, replication, repair as well as its regulation.

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