

朝陽科技大學 097學年度第1學期教學大綱  
Special Topics in Polymer Chemistry 高分子化學特論

當期課號	7181	Course Number	7181
授課教師	楊博智	Instructor	YANG,PO CHIH
中文課名	高分子化學特論	Course Name	Special Topics in Polymer Chemistry
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	本課程目標是使學生能更瞭解高分子科學之基本理論外，對於更廣泛之各種高分子化學合成及高分子物質的應用，有更深入之了解。	Objectives	This course intends to provide an introduction to the fundamental concepts in polymer science. The course also tries to provide an understanding of various polymer synthesis and applications of polymeric materials.
教材	採用課本及講義授課	Teaching Materials	By textbook and handout
成績評量方式	期中考佔30%和期末考佔40%，出席率和期中報告佔30%	Grading	The ratio of grade is 30, 40, 40% of midterm, final examination, and presence and report.
教師網頁	-		
教學內容	(1) 高分子簡介 (2) 化學結構 (3) 連鎖聚合反應 (4) 逐步聚合反應 (5) 可控制型聚合反應 (6) 分子量及大小 (7) 非結晶性,結晶性和液晶高分子 (8) 共聚高分子,微結構,和立體規則性 (9) 交聯,凝膠,和橡膠彈性	Syllabus	(1) Introduction to polymer science (2) Chemical structures (3) Chain polymerization (4) Step polymerization (5) Controlled polymerization (6) Molecular weights and sizes (7) The amorphous, crystalline and liquid crystalline polymers (8) Copolymers, microstructure, and stereoregularity (9) Networks, gels, and rubber elasticity

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