

朝陽科技大學 095學年度第1學期教學大綱
Chemistry and Life 化學與人生

當期課號	9075	Course Number	9075
授課教師	陳政男	Instructor	CHEN,CHANG NAN
中文課名	化學與人生	Course Name	Chemistry and Life
開課單位	跨院通識(進)	Department	
修習別	選擇必修	Required/Elective	Intercollegiate General Education Topics
學分數	2	Credits	2
課程目標	將生活中的食,衣,住,行,環境,醫藥,生物技術等之科學領域,以較淺顯,生活化的形式表達給非理工學院的學生修習.使學生逐漸了解在日常生活中的化學,物理,醫學等科學原理,進而使學生能對科學產生興趣,並學習將科學常識應用在日常生活中.除了科技的好處,同時將探討科技產生的負面影響。	Objectives	This class introduces science and technology about food, clothes, house, transportation, environment, medicine and biotechnology in the daily life. It is designed for the students with major in social science, not in natural science. The students will learn how to apply science and technology in their daily lives. In spite of the advantage, we will also discuss the disadvantage that science and technology bring for our life.
教材	筆記, 期刊, 網站資訊, 多媒體教材	Teaching Materials	Notes, Journals and internet information, multimedia materials
成績評量方式	期中考30%, 期末考30%, 專題報告20%。上課出勤成績占20%。	Grading	midterm 30%, final 30%, Special topic report 20%, presence 20%.
教師網頁	-		
教學內容	1. 何謂化學? 基礎化學原理介紹。 2. 廚房中的化學。 3. 常見藥物中的化學。 4. 衣服的化學。 5. 能源(石油、核能、電池、太陽能)與化學。 6. 何謂奈米? 奈米科技的運用, 奈米世界的利與弊。 7. 基因時代到蛋白質時代。	Syllabus	1. What is chemistry? Introduction of basic chemistry. 2. Chemistry in kitchen. 3. Chemistry and medicine 4. Chemistry of clothes. 5. Energy (oil, nuclear power, battery, and solar power) chemistry 6. What is nanometer? The advantage and disadvantage of the world of nanometer 7. From genomics to proteomics

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