朝陽科技大學 099學年度第1學期教學大綱
Environmental Science 環境科學

當期課號	1707	Course Number	1707
授課教師	鄭介眉	Instructor	CHENG,CHEI MAI
中文課名	環境科學	Course Name	Environmental Science
開課單位	環境工程與管理系(四日)一A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	透過本課程，讓學生瞭解環境複雜問題的科學基礎與所面對的困難之妥協問題，廣泛基礎的環境科學課程可教導不同領域的學生認識科學與社會議題的極佳方法，引導學生學習如何收集和分析有用的資訊，及如何嚴謹思考複雜的議題，促使學生在環境科學基本原理上建立堅強的基礎，培養對環境領域研究之興趣。	Objectives	The objective of this course is to provide the students to understand the fundamental issues in environmental science. The course addresses what the environmental problems are, how these problems impact the environment, and the means society has chosen to deal with these problems. The topics include the basic concept of environmental science, air pollution, the climate issue and the dissipation of air pollutant, air pollution control, water pollution, growth mathematics, solid waste, hazard waste and radiation, risk analysis, soil and groundwater pollution and control, noise pollution and control, and environmental impact assessment.
教材	參考書籍 環境科學概論--結合全球與在地永續發展（第四版），Cunningham W.P.原著，白子易譯，麥格羅.希爾(McGraw-Hill)出版，2008年。	Teaching Materials	Refrence: Principles of Environmental Science: Inquiry and Applications, 4e, Cunningham, W.P. and M. A. Cunningham, McGraw-Hill, 2008.
成績評量方式	1.作業報告及小考30% 2.出席10% 3.期中考30% 4.期末考30%	Grading	1.Reports (or presentation)and quiz 30% 2.Class participation 10%3.Mid-term examination 30% 4.Final-term examination 30%
教師網頁	e.mail:0177@sun.epa.gov.tw		
教學內容	環境科學基本概念，了解我們的環境，生態學的原理，族群、群落與物種互動，人口，生物社會及生物多樣性，環境教育，食物與農業，環境健康與毒物危害，氣候與污染，水資源與污染，環境地質學與地球資源，能源，固體及有害廢棄物，永續性與發展人類，環境科學與政策。	Syllabus	The objective of this course is to provide the freshman students to understand the fundamental issues in environmental science. The course addresses what the environmental problems are, how these problems impact the environment, and the means society has chosen to deal with these problems.

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