朝陽科技大學 099學年度第2學期教學大綱
Calculus(II) 微積分(二)

當期課號	1617	Course Number	1617
授課教師	錢偉鈞	Instructor	CHIEN,WEI JYUN
中文課名	微積分(二)	Course Name	Calculus(II)
開課單位	應用化學系(四日)一B	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	本課程乃修習工程及應用科學之必備與先修課程，目在於讓學生清楚微積分重要觀念與應用。	Objectives	This course includes all the standard topics. It also includes a number of unique features: (1) to make the "Calculus" easier for students to learn through the use of examples, exercises, and graphs of differentiation and integration; (2) to help students appreciate the beauty of the definition of calculus through examples in "Physical Chemistry".
教材	(1) 化學數學手冊第二版,作者:Erich Steiner,牛津科學出版社	Teaching Materials	The Chemistry Maths Book, Erich Steiner, Oxford Science Publication.
成績評量方式	平時參與: 20% 三次期中測驗:共計60% 期末測驗 : 20%	Grading	Participation: 20% Midterm Exam (3) : 60% Final Exam : 20%
教師網頁	http://www.cyut.edu.tw/~wjchien		
教學內容	(1) 函數與微分原理的複習 (2) 積分原理: 不定積分運算原則, 定積分運算原則 (3) 積分方法 (4) 序列與級數 (5) 多變數函數的微分與積分	Syllabus	(1) Review in functionsand principle of differentiation (2) Principle of integration (3) Methods of integration (4) Sequences and series (5) Functions of several variables: partial differentiation, total differentiation, exact differentials, multiple integrals

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