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	2506	Course Number	2506
授課教師	林傳筆	Instructor	LIN,CHUAN BI
中文課名	微積分(二)	Course Name	Calculus(II)
開課單位	資訊與通訊系(四日)一A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程之目標在使學生擁有微積分之計算技巧。微積分是基礎的數學工具,在許多的科技領域都必須使用它來解題。學生可以從本課程中學到微積分應用到其他學科上的解題技巧,因而提升學生將來解決問題的能力。"a. 學習微積分基本原理和應用, b. 具有解題技巧及演算能力 c. 培養思考和邏輯能力 d. 奠定學習其他專門工程學科的基礎"	Objectives	The goal is to train the students to have good calculation skills. Calculus is a very useful mathematical tool in various fields. Students might have to apply what they have learned in this course in many other applications. So they got to have well trained problems solving skills for handling various upcoming situations. a. Learn the basic fundamentals and applications of Calculus. b. Have the ability of solving skills and calculus. c. Train the ability of thinking and logic. d. Establish the foundation for learning the other Engineering subjects
教材	"Calculus:Early Transcendental Functions, 3e", Smith Minton, 高立書局	Teaching Materials	"Calculus:Early Transcendental Functions, 3e", Smith Minton, 高立書局
成績評量方式	課堂表現:10% 作業:15% 小考:20% 期中考:25% 期末考:30%	Grading	Attendance:10% Homeworks:15% Quizzes:20% Midterm:25% Final:30%
教師網頁			
教學內容	主要內容包括:積分,積分的應用,積分的技巧,多變數函數的微積分,泰勒多項式與無窮級數,多重積分。	Syllabus	The topics include: Integration, Applications of the Definite Integral, Integration Techniques, Functions of Serveral Variables and Partial Differentiation, Infinite Series, and Multiple Integrals.