## 課程大綱及進度表

開課系所	建築甲乙
開課學年	97 學年度
開課學期	1
課程名稱(中文)	微積分(一)
課程名稱(英文)	CALCULUS (1)
課程碼	E715611
分班碼	
先修科目或先備能力	高中數學
學分數	3
開課教師	方永富
e-mail	fang@math.ncku.edu.tw
電話	275-7575 轉 65131
Office Hours	星期三,五:12:10-13:00
課程概述	We want to study the concept of
	limits and continuity, and then
	apply to differentiation.
	We then discuss mean-value theorem
	and its applications.
	Then we investigate the idea of
	integration and its applications and
	techniques of Integration. Finally
	we will talk about transcendental
	functions, polar Coordinates, and
	Parametric Equations.
教學目標	We expect to grab the basic idea and
	concept of calculus for one variable
	function, then to extend those to
	functions of several variables.

授課課程大綱明細	Ch1: Precalculus Review
	Ch2: Limits and Continuity
	Ch3: Differentiation
	Ch4: Mean-Value Theorem and
	Applications
	Ch5: Integration
	Ch6: Applications of the Integral
	Ch7: Transcendental Functions
	Ch8: Techniques of Integration
	Ch9: Conic Sections:Polar
	Coordinates; Parametric
	Equations
	Ch10: Sequences
	Chll: Infinite Series
參考書目	Calculus (one and several variables)
	( Chapter 1 - 11)
	by Salas, Hille, and Etgen, (Ninth
	edition)
課程要求	High School Math
評量方式	Quizzes: 20%
	Midterm I: 20%
	Midterm II: 22%
	Final: 35%
	TA: 3%
課程網址	http://math.ncku.edu.tw/~fang
助教資訊	
備註	