

Course Description

Department of Mathematics

Nature of the course <input type="checkbox"/> required <input type="checkbox"/> elective		Area 麻煩老師勾選類別，或直接填寫 <u>Calculus</u> 。			
		<input type="checkbox"/> Algebra <input type="checkbox"/> Analysis <input type="checkbox"/> Geometry <input type="checkbox"/> Statistics <input type="checkbox"/> Applied Mathematics <input type="checkbox"/> Discrete Mathematics <input type="checkbox"/> Others			
Calculus <input type="checkbox"/> Calculus A <input type="checkbox"/> Calculus B					
Course number		Section number		Number of credits	
Course title	Calculus B				
Instructor	Tsung- Ming Tsai [蔡聰明]				

I. Contents :

1.Limits and their properties

2.Differentiation

3.Applications of differentiation

4.Intergration

5.Logarithmic, exponential, and other transcendental functions

6.Differential equations

7.Applications of integration

II. Course prerequisite :

High school mathematics

III. Reference material (textbook(s)) :

Thomas' Calculus

蔡聰明：微積分的歷史步道，三民書局

IV. Grading scheme :

Midterm exam 50%

Final exam 50%

V. Others :

VI. Course Goal :

**To help students understand , enjoy and apply calculus,
teach them strategies for solving problems.**