Course Description

Department of Mathematics

Nature of the course ■ required □ elective	Area 麻煩老師勾選類別，或直接填寫 Calculus □ Algebra □ Analysis □ Geometry □ Statistics □ Applied Mathematics □ Discrete Mathematics □ Others				
Calculus □ Calculus A ■ Calculus B					
Course number	201 101B1	Section number	08	Number of credits	3
Course title	Calculus				
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))：

James Stewart: Calculus

蔡聰明：微積分的歷史步道, 三民書局

IV. Grading scheme：

Midterm exam 40%

Final exam 40%

Home work 20%

V. Others：

VI. Course Goal：

To understand , enjoy and apply calculus.