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 Analysis 。 ☐ 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. Techniques of Integration

2. Further Applications of Integration

3. Differential equations

4. Partial Derivatives

5. Multiple Integrals

6. Green Theorem

II. Course prerequisite：

High school mathematics

And the first term Calculus

III. Reference material (textbook(s))：

James: Calculus, Early Transcendentals, Sixed Edition

IV. Grading scheme：

Midterm exam 40%

Final exam 40%

Home work 20%

V. Others：

VI. Course Goal：

To understand calculus and to apply calculus.