

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>Analysis</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	201 101B1	Section number	08	Number of credits	3
Course title	Calculus				
Instructor	Tsung- Ming Tsai [蔡聰明]				

I. Contents :

- 1. Integration**
- 2. Applications of Definite Integrals**
- 3. Integrals and Transcendental Functions**
- 4. Techniques of Integration**
- 3. First-Order Differential equations**
- 5. Partial Derivatives**
- 6. Multiple Integrals**
- 7. Green Theorem**

II. Course prerequisite :

**High school mathematics
And the first term Calculus**

III. Reference material (textbook(s)) :

Thomas: Thomas' Calculus, Early Transcendentals, Twelfth 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.

