## Course Description

Department of Mathematics

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Nature of the course		Area 麻煩老師勾選類別,或直接填寫 <u>Calculus</u> 。
■required □ elective		☐ Algebra ☐ Analysis ☐ Geometry ☐ Statistics
-		☐ Applied Mathematics ☐ Discrete Mathematics ☐ Others
	alculus A	Calculus B
Course number	201101B1	Section number 11 Number of credits 3
Course title Calculus B		TD 1 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Instructor Tsong- Ming Tsai [蔡聰明]		
I. Contents:		
1. Functions		
2.Limits and their properties		
3.Differentiation		
4.Applications of Derivatives		
5.Intergration		
6.Application of Definite Integrals		
7. Integrals and Transcendental functions		
8. Technique of Integration		
II. Course prerequisite:		
High school mathematics		
III. Reference material ( textbook(s) ):		
Hass, Weir and Thomas: University Calculus, Early Transcendentals, Second Edition.		
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 help students understand, enjoy and apply calculus,		
teach them strategies for solving problems.		