Course Description

Department of Mathematics

		Department of	- Triatile illianes			
Nature of the course ■ required □ elective		Area_				
		☐ Algebra ☐ Analysis ☐ Geometry ☐ Statistics				
		☐ Applied Mathematics ☐ Discrete Mathematics ☐ Others				
Calculus □ Calculus A ■ Calculus B						
Course number	201 101B1	Section number		Number of credits	3	
Course title	Course title Calculus					
Instructor Shiow-Yu Chang [張秀瑜]						
I. *Contents:						
(1) Limits and Continuity: Calculating Limits						
(2) Differentiation: Rates of Change, Differentiation Formula, Linear Approximations						
(3) Applications of Differentiation: Extreme Values, The Mean Value Theorem, Derivative and the						
Shapes of Graphs						
(4) Integration: The Definite Integral, The Fundamental Theorem of Calculus, The Substitution						
Rule						
(5) Inverse Functions, Transcendental Functions, l'Hospital's Rule						
(6) Techniques of Integration.						
(b) Techniques of Integration.						
II. Textbook:						
Stewart : Essential Calculus						
III. *Grading scheme:						
Homework 20%						
Quiz 20%						
Midterm Test 30%						
Final Test 30%						
rinar test 3070						
IV. ★ Course Goal: The emphasis of our course is on understanding concepts.						
V.						
v.						