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 ☐ Algebra ☐ Analysis ☐ Geometry ☐ Statistics ☐ Applied Mathematics ☐ Discrete Mathematics ☐ Others			
Calculus ☐ Calculus A ☑ Calculus B					
Course number	201 101B1	Section number	16	Number of credits	3
Course title	Calculus				
Instructor	Tsong-Cherng Lee [李聰成]				

I. Contents：

First Semester:
(1) Functions and Their Graphs.
(2) Limits and Continuity.
(3) Differential Calculus: Derivatives and Their Applications.
Midterm Test
(4) Integral Calculus: The Fundamental Properties.
(5) Logarithmic, Exponential, and Inverse Trigonometric Functions.
(6) Applications of Integration.
Final Test
Second Semester:
(1) Techniques of Integration.
(2) Infinite Sequences and Series.
Midterm Test
(3) Differential Calculus of Functions of Several Variables.
(4) Double Integrals.
Final Test

II. Course prerequisite：

III. Reference material (textbook(s))：

James Stewart, Calculus 6th edition , 2009.
滄海圖書代理

IV. Grading scheme：

Midterm Test 50%
Final Test 50%

V. Others：

Home Work: Selected Exercises from the Textbook (Main Sourse of the Problems in the Tests).

VI. Course Goal：