

Course Description

Department of Mathematics

Nature of the course <input checked="" type="checkbox"/> required <input type="checkbox"/> elective		Area 麻煩老師勾選類別，或直接填寫 <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 checked="" type="checkbox"/> Calculus B					
Course number	201 101B1	Section number	15	Number of credits	3
Course title	Calculus				
Instructor	Tsong-Cherng Lee [李聰成]				
<p>I. Contents :</p> <p>First Semester:</p> <p>(1) Functions and Their Graphs.</p> <p>(2) Limits and Continuity.</p> <p>(3) Differential Calculus: Derivatives and Their Applications.</p> <p>Midterm Test</p> <p>(4) Integral Calculus: The Fundamental Properties.</p> <p>(5) Logarithmic, Exponential, and Inverse Trigonometric Functions.</p> <p>(6) Applications of Integration.</p> <p>Final Test</p> <p>Second Semester:</p> <p>(1) Techniques of Integration.</p> <p>(2) Infinite Sequences and Series.</p> <p>Midterm Test</p> <p>(3) Differential Calculus of Functions of Several Variables.</p> <p>(4) Double Integrals.</p> <p>Final Test</p> <p>II. Course prerequisite :</p> <p>III. textbook :</p> <p>Stewart: Calculus 7th ed. 2012</p> <p>IV. Grading scheme :</p> <p>Midterm Test 50%</p> <p>Final Test 50%</p> <p>V. Others :</p> <p>Home Work: Selected Exercises from the Textbook (Major Source of the Problems in the Tests).</p> <p>VI. Course Goal :</p>					