

Course Description

Department of Mathematics

Nature of the course <input type="checkbox"/> required x <input type="checkbox"/> elective		Area 麻煩老師勾選類別，或直接填寫_____。 x <input type="checkbox"/> 代數與數論 x <input type="checkbox"/> 分析 x <input type="checkbox"/> 幾何與拓樸 <input type="checkbox"/> 計算與應用數學 <input type="checkbox"/> 機率 <input type="checkbox"/> 統計 <input type="checkbox"/> 離散數學 <input type="checkbox"/> 其他 <input type="checkbox"/> 論文研討、獨立研究			
Calculus <input type="checkbox"/> Calculus A		<input type="checkbox"/> Calculus B			
Course number		Section number	免填	Number of credits	3
Course title	課程名稱： Basic mathematics (基礎數學)				
Instructor	教授： 康明昌				

I. * **Contents** : This is a course designed for students who are not in the mathematics department. We will discuss some set theory, point-set topology, Lebesgue integrals, finding integral solutions of equations with integral coefficients, etc.

II. **Course prerequisite** : Calculus and linear algebra

III. * **Reference material (textbook(s))** : Some chapters in "Garrity, All the mathematics you missed"

IV. * **Grading scheme** : 請填寫各項計分之百分比，例如：期中 30% 期末 40% 作業 10% 報告 20%，總計 100%
Homeworks (exercises assigned almost every two weeks) 40%,
Term paper and oral examination (at the end of the semester) 30%,
Attention 30%

V. * **Course Goal** :

- (1) To have some ideas about topology used in calculus and advanced calculus;
- (2) To have some idea about measure and integration;
- (3) To be familiar with Diophantine equations.

1. * 號為必填欄位

2. 大綱內容字數英文最少 200 字以上