

Course Description

Department of Mathematics

Nature of the course <input 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 and Number theory <input type="checkbox"/> Analysis <input type="checkbox"/> Geometry and Topology <input type="checkbox"/> Computation and Applied Mathematics <input type="checkbox"/> Statistics <input type="checkbox"/> Probability <input type="checkbox"/> Discrete Mathematics <input type="checkbox"/> Others		
Calculus <input type="checkbox"/> Calculus A		<input type="checkbox"/> Calculus B		
Course number		Section number	免填	Number of credits 2
Course title	課程名稱(英文) mathematical thinking 數學思想			
Instructor	教授：張海潮			

I. *Contents :

The course will consist of a sequence of lectures on selected topics on those major developments of mathematics which played core role in the developments of history of mankind such as: geometry and astronomy in Greek, the foundation of geometry and analysis, from Pythagoras to Newton's theory of Gravitation.

II. Course prerequisite :

Mathematical maturity in general and interest in natural sciences rather than some specific courses of mathematics at nowadays setting.

III. *Reference material (textbook(s)) :

1. <<說數>> 張海潮著 三民書局
2. <<微積分思想>> 張海潮自編講義

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%

1. 三~五篇隨堂報告 40%
2. 一~二次習題 20%
3. 期末報告 40%

V. *Course Goal :

To help and to inspire students to achieve in deep understanding on mathematics in general via the study of the developments of mathematics.

1. *號為必填欄位
2. 大綱內容字數英文最少 200 字以上