



課 綱 Course Outline
應用數學系數學科學組

中文課程名稱 Course Name in Chinese	應數專論				
英文課程名稱 Course Name in English	Topics in Applied Mathematics				
科目代碼 Course Code	AM__40000	班 別 Degree	學士班 Bachelor' s		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
由任課教師專長區分(如數值、微分方程等)，設定個別目標。 Topics chosen by the teaching professor					
系教育目標 Dept.' s Education Objectives					
1	訓練嚴謹思考與推理能力。 To provide a solid training in rigorous thinking and reasoning ability.				
2	奠定理論與應用數學的基礎知識。 To establish well-founded background knowledge in pure and applied mathematics.				
3	具備跨領域學習能力。 To prepare the students for interdisciplinary study in the future.				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.' s Education Objectives	
A	具備基本數學知識及邏輯推理能力 Have well-founded background in mathematics and be capable of logical reasoning.			○	
B	具備學習數學相關領域的預備知識。 Be knowledgeable about fields related to mathematics.			○	
C	具備軟體應用與科學計算能力。 Be able to use mathematics software and scientific computation skill in problem-solving.			○	
圖示說明Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated					
課程大綱 Course Outline					

以問題為導向，綜合學生過去所學專業知識，從事小型研究計劃。
實際研究方向依授課教師及學生而定。

Oriented by the questions, let students be engaged in a small research projects so that the students can apply their specialized knowledge.

The actual research direction is decided by the teaching and the students.

資源需求評估（師資專長之聘任、儀器設備的配合．．．等）

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

本系專、兼任教師，相關軟硬體。

Professors from applied math department

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

講授、獨立研究及報告

Lectures, independent research and reports

其他

Miscellaneous

撰寫人：應用數學系 王立中

撰寫日：100年4月