



課 綱 Course Outline

應用數學系博士班

中文課程名稱 Course Name in Chinese	應數導論				
英文課程名稱 Course Name in English	Introduction to Applied Mathematics				
科目代碼 Course Code	AM__75200	班 別 Degree	博士班 Ph. D.		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
由任課教師依各別專長區分之主題，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	具備專業知識及邏輯推理能力 Have well-founded expertise and be capable of logical reasoning.			●	
B	具備學習其它學科的能力，以期能邁向跨領域研究。 Be able to study other fields of science so as to conduct interdisciplinary research in the future.			●	
C	具備獨立思考與解決問題的能力。 Be capable of independent thinking and have the problem-solving skills.			●	
圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated					
課程大綱					

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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 small research projects so that the students can apply their specialized knowledge.

The actual research direction is decided by the teaching professors 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 吳建銘

109年4月22日系課委會通過。