

國立高雄師範大學

National Kaohsiung Normal University

數學系數學教學碩士在職專班【暑期班】開課系統表

Curriculum for the Summer Master's/Graduate Program for In-Service Teachers, Department of Mathematics

111學年度入學生適用Applicable to students enrolled Fall 2022 and later

1. 必修課程Required Courses	
科 目Subject	學分數Credit
論文Thesis	6
2. 選修課程Elective Courses	
科 目Subject	學分數Credit
3D列印與數學3D Printing and Mathematics	3
中學數學課程之理論與實務Theory and Practice of High School Mathematical Curriculum	3
分析專題Topics in Analysis	3
分析通論Analysis	3
代數學通論Abstract Algebra	3
多變量分析Multivariate Analysis	3
自動機與形式語言Finite State Automata and Formal Languages	3
定點理論Fixed Point Theory	3
非線性分析Nonlinear Analysis	3
計算理論Theory of Computation	3
書報討論Seminar	3
動態幾何Dynamical Geometry	3
專題討論 Seminar	1
統計通論Statistics	3
幾何學通論Geometry	3
資料分析Data Analysis	3
電腦動畫輔助教學Computer Animation-Aided Instruction	2
實變分析Real Analysis	3
數值分析通論Numerical Analysis	3
數理邏輯導論Introduction to Mathematical Logic	3
數論通論Number Theory	3
數學文書處理Mathematical Document Process	3
數學文獻分析與批判Analysis and Critique of Mathematical Literature	3
數學史History of Mathematics	2
數學多元課程設計及教學活動Designs and Teaching Activities of Mathematical Diversified Courses	3
數學科雙語教學Bilingual Teaching in Mathematics	3
數學桌遊與益智遊戲設計Design of Mathematical Board Games and Recreational Mathematics	3
數學素養導讀Guide to Mathematical Literacy	3
數學教育研究Study in Mathematical Education	3
數學教育研究法Methods of Mathematics Educational Research	3
數學教學法研究Advanced Study in the Teaching of Mathematics	3
數學教學活動設計Activities Design of Mathematics	2
數學教學軟體Instructional Software in Mathematics	3
數學教學評量研究Teaching Evaluation Research in Mathematics	3

數學解題Mathematical Problem Solving	3
數學解題方法Problem Solving Strategies in Mathematics	3
數學電腦輔助教學Computer-Aided Instruction in Mathematics	2
數學學習心理學Learning Psychology of Mathematics	3
線性規劃通論Linear Programming	3
應用數學專題Topics in Applied Mathematics	3
應用線性代數Applied Linear Algebra	3
離散數學通論Discrete Mathematics	3
備註 Remarks	一、畢業要求：28學分 (不含論文6學分) Graduation requirements: Earn a minimum of 28 credits of course work (not including 6 credits of Thesis) 二、抵免科目需經本系相關任課教師認可後，始可抵免。 Transfer credits or waivers should be approved by instructors of corresponding courses. 三、抵免學分至多8學分。 The maximal of transfer credits or waivers are 8 credits.
異動 註記	案經本校111年04月13日110學年度第2學期第1次教務會議審議通過。