

(Study Scheme - English)

Minor Programme Title
Mathematics and Applied Mathematics

Study Scheme

Applicable to all students admitted in 2018-19, 2019-20, 2020-21 and 2021-22

Minor Programme Requirement

Students are required to complete a minimum of 21 units of courses as follows:

	Units
1. Required Courses: MAT2002, 2006 or 2050 or 2060, 3040	9
2. Elective Courses[a]: FMA4800, MAT2007, 3004, 3006, 3007, 3253, 3280, 3300, 3350, 4001, 4002, 4003, 4004, 4010, 4033, 4220, 4240, 4500	12
Total:	21

Explanatory Note:

[a] Courses used to fulfill the requirements of other Majors or Minors cannot be counted towards this Minor elective requirement.

(Study Scheme – Chinese)

副修課程名稱
數學與應用數學

修讀辦法

二〇一八至一九，二〇一九至二〇，二〇二〇至二一及二〇二一至二二年度入學學生適用

副修課程要求

學生須至少修畢以下科目共 21 學分：

	學分
1. 必修科目：	
MAT2002, 2006 或 2050 或 2060, 3040	9
2. 選修科目[a]：	
FMA4800, MAT2007, 3004, 3006, 3007, 3253, 3280, 3300, 3350, 4001, 4002, 4003, 4004, 4010, 4033, 4220, 4240, 4500	12
共：	<hr/> 21

註：

[a] 已用作符合其他主修或副修課程要求之科目不得再用作符合此副修課程之選修要求。

Course List

I. Required Courses

Course Code	Course Title (English)	Course Title (Chinese)	Unit(s)
MAT2002	Ordinary Differential Equations	常微分方程	3
Option A [#]	MAT2006	Elementary Real Analysis	基礎實分析
Option B [#]	MAT2050	Mathematical Analysis	數學分析
Option C [#]	MAT2060 [*]	Honours Mathematical Analysis	數學分析榮譽課程
MAT3040	Advanced Linear Algebra	高等線性代數	3

[#] Remark: Students can choose to take either Option A or Option B or Option C to fulfill the programme requirement.

II. Elective Courses

Course Code	Course Title (English)	Course Title (Chinese)	Unit(s)
FMA4800	Financial Computation	金融計算	3
MAT2007	Elementary Real Analysis II	基礎實分析 (二)	3
MAT3004	Abstract Algebra I	抽象代數 (一)	3
MAT3006	Real Analysis	實分析	3
MAT3007	Optimization	最優化	3
MAT3253	Complex Variables	複變函數	3
MAT3280	Probability Theory	概率論	3
MAT3300	Mathematical Modelling	數學建模	3
MAT3350*	Introduction to Information Theory	信息論導論	3
MAT4001	Numerical Analysis	數值分析	3
MAT4002	Introduction to Geometry and Topology	幾何與拓撲學導論	3
MAT4003	Number Theory	數論	3
MAT4004	Graph Theory	圖論	3
MAT4010	Functional Analysis	泛函分析	3
MAT4033	Differential Geometry	微分幾何	3
MAT4220	Partial Differential Equation	偏微分方程	3
MAT4240	Numerical Methods for Differential Equations	微分方程數值解	3
MAT4500	Stochastic Differential Equation	隨機微分方程	3

* The course title of MAT3350 is Selected Topics in Information Theory for students who study the course before 2022-23 term 2. For students who study this course from 2022-23 term 2, the course title is Introduction to Information Theory.

在 2022-23 學年第二學期前修讀 MAT3350，科目名稱為「信息論專題」。在 2022-23 學年第二學期及以後修讀該科目，科目名稱為「信息論導論」。

* The course title of MAT2060 is Mathematical Analysis Extended for students who study the course before 2023-24 term 1. For students who study this course from 2023-24 term 1, the course title is Honours Mathematical Analysis.

在 2023-24 學年第一学期前修讀 MAT2060，科目名稱為「數學分析精講」。在 2023-24 學年第一学期及以後修讀該科目，科目名稱為「數學分析榮譽課程」。