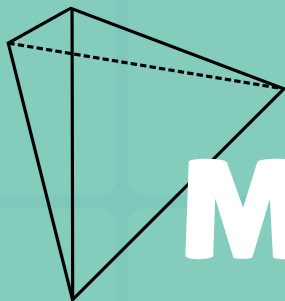
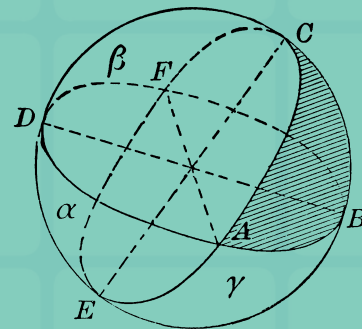




香港教育大學

The Education University  
of Hong Kong



MASTER OF ARTS IN

.....

# MATHEMATICS AND PEDAGOGY

.....

數學及教學文學碩士

One-year Full-time 一年全日制

PROGRAMME CODE: A1M085

EdUHK Excels in 2023 QS World University Rankings;  
Ranked 4th in Asia & 21st in the World in Education

香港教育大學於2023 QS 世界大學學科  
排名 (教育領域) 全球二十一、亞洲第四



Department of  
Mathematics and  
Information Technology

## PROGRAMME AIMS **This programme aims to:**

- broaden students' knowledge in Mathematics;
- help students realise how to teach Mathematics in schools from an advanced mathematical standpoint;
- expose students to different classroom environments and innovative pedagogical practices in Mathematics;
- cultivate synergy between subject knowledge and pedagogy in Mathematics; and
- foster students' critical thinking to enable them to become reflective practitioners.

本課程旨在加深及強化學員的數學知識，幫助他們從高等數學角度認識數學的教與學。同時讓學員接觸不同的課堂環境和創新的數學教學方法，培養他們整合數學學科知識和教學法的能力，提升他們的批判性思維，使其成為懂得自我反思的教育工作者。

## ENTRANCE REQUIREMENTS

### **The minimum entrance requirements for this programme:**

- A recognized Bachelor's degree, preferably in subject areas other than Mathematics\*  
申請人須持有由認可大學頒授的本科學士學位（非主修數學為佳\*）或同等學歷\*
- Obtained in the HKALE Grade E or above in Mathematics or in HKDSE Level 4 or above in Mathematics (Compulsory Part), or an equivalent qualification in Mathematics\*  
具備香港高級程度會考數學科考獲 E 級以上成績或香港中學文憑試中數學（必修部分）考獲 4 級或以上成績或同等學歷
- Applicant whose Bachelor's degree is obtained from a non-English speaking institution should normally fulfil one of the following minimum English proficiency requirements:  
申請人如非在英語授課的院校取得學士學位，其英語水平須符合以下其中一項要求：
  - a. IELTS 6.0\*\* 雅思水平達 6.0 或以上\*\*； or
  - b. Grade C or above in GCSE/GCE OL English; or a TOEFL score of 80 (internet-based test)\*\* GCSE/GCE OL 英語 C 級或以上；或托福 TOEFL 分數 80（網絡考試）\*\*； or
  - c. Band 6 in the Chinese Mainland's College English Test (CET) (a total score of 430 or above and the test result should be valid within two years); 中國內地的全國大學英語六級考試成績不少於 430 分（成績有效期為兩年）； or
  - d. Other equivalent qualifications. 其他同等學歷。

\* Applicant who had studied some Mathematics (or Mathematics related) courses in the undergraduates or former Colleges of Education may also be considered.

\* 申請人如在修讀學士學位或前師範學院課程期間，曾修讀數學或數學相關科目，其申請亦會獲考慮。

\*\* The result of IELTS/TOEFL provided should be within two years and should be taken in test centres.

\*\* 所提供的雅思/託福成績應在兩年有效期內，且應是在考試中心參加考試取得的成績。


$$A = \pi r^2$$

# PROGRAMME CURRICULUM

The programme comprises 24 credit points (cps). Each course is worth 3 cps. Students normally take one year (Full-time) to complete the whole programme.

本課程共有24個學分，每科目3學分。學員可在一年內修畢整個課程。

## MATHEMATICAL STUDIES 數學科目



### CORE COURSES 必修課

- Algebra and Number Theory 代數與數論
- Foundations of Geometry 基礎幾何學
- Probability and Statistics 概率與統計

### ELECTIVE COURSES 選修課

- Calculus and Mathematical Modelling 微積分與數學建模 #
- Combinatorics and Graph Theory 組合學與圖論 #

## PEDAGOGY IN MATHEMATICS 數學教學法科目



### CORE COURSES 必修課

- Instructional Design in Mathematics 數學教學設計
- Technology for Mathematics Teaching: An Inquiry Approach  
運用科技於數學教學：以探究取向為本
- History and Pedagogy of Mathematics 數學史的教與學

### ELECTIVE COURSES 選修課

- Mathematical Thinking and Assessment 數學思維與評估 @
- Data Mining in STEM Education STEM教育中的數據挖掘 @
- Artificial Intelligence in Education 教育中的人工智能 @

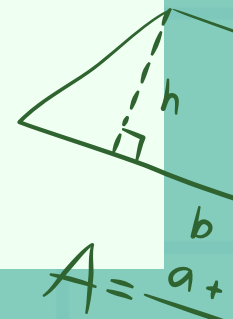
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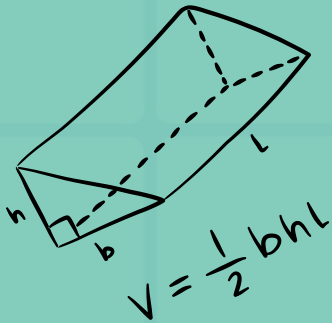
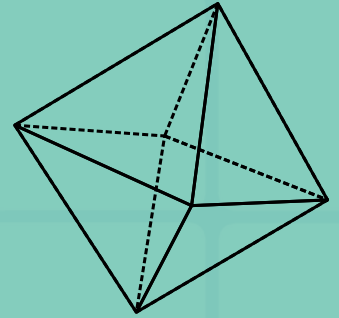
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## TUITION FEE

This programme is offered on a self-financed basis. The tuition fee is HK\$132,300 for the whole programme, which is provisional and subject to adjustment. Tuition fees paid are normally not refundable or transferable. Extension fees will be charged to students who have to extend their studies beyond the normal duration.

本課程為自資修讀式碩士學位課程。全期學費港幣十三萬二千三百元，上述學費可能於日後有所調整，已繳學費一般不獲退還或轉授。如需延長學習時間，需繳納延長費用。





## PROGRAMME INFORMATION & APPLICATION



[www.eduhk.hk/mamp/](http://www.eduhk.hk/mamp/)

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