# Mathematics

Offered As:  
- Major  
- Intensive Major  
- Minor

*Open to students of other Faculties:*  
- (For Mathematics major and minor only)  
  Intensive major in Mathematics is only open to BSc students.

### What is it about?

The Major in Mathematics provides students with a solid and comprehensive undergraduate education in the subject. It aims to nurture quantitative reasoning, logical, analytical and critical thinking, innovative imagination, meticulous care to work, ability to conceptualise, skills for problem-solving, and capability to tackle novel situations and ill-defined problems. Core courses in the curriculum emphasize fundamental knowledge and concepts in Mathematics and elective courses provide training in both pure and applied aspects of Mathematics.

The Intensive Major in Mathematics provides students with a solid and comprehensive undergraduate education in the subject. It aims to nurture quantitative reasoning, logical, analytical and critical thinking, innovative imagination, meticulous care to work, ability to conceptualise, skills for problem-solving, and capability to tackle novel situations and ill-defined problems. Core courses in the curriculum emphasize a firm foundation in Mathematics.

The Minor in Mathematics provides students with fundamental knowledge in the subject. It is specifically designed for students who are interested in the subject and those whose majors require sophisticated mathematical skills. It aims to nurture quantitative reasoning, logical, analytical and critical thinking, innovative imagination, meticulous care to work, ability to conceptualise, skills for problem-solving, and capability to tackle novel situations and ill-defined problems.

### Offering Department:

Offered by the Department of Mathematics

### Pre-requisites and/or other conditions for declaring the major/minor:

**Major/Intensive Major/Minor:**
Students must have level 2 or above in HKDSE Extended Module 1 or 2 of Mathematics or equivalent to take this major/minor. Students who do not fulfill this requirement are advised to take MATH1011 University mathematics I. Please refer to the course prerequisites of the required courses.

For details, please check with the Department of Mathematics.

### Career opportunities:

For the Mathematics Major, throughout the curriculum there is also emphasis on experiential learning through guided studies, projects, seminars and summer internships. With the diversity of courses offered in the major, various specialisations are available. These will lead to careers in a wide range of sectors including education, economics and finance, analytics and data science, logistics, management, research and further studies.

As for the Intensive Mathematics Major, graduates are expected to have strong academic ability to pursue graduate studies or professional careers that require in-depth mathematical training.

For details, please check with Faculty or CEDARS (Careers & Placement).

### Further information:

**Major:**

**Intensive Major:**
| **Contact:** | E: math@hku.hk  
T: 2859 2250 |

* Note: Students pursuing curricula with major / minor programme(s) must complete at least one major programme from their home Faculties upon graduation.

Disclaimer: The information mainly applies to students admitted in 2020-2021 and thereafter. For students from different cohorts, the information is only for reference. Please check with Faculty/offering department for details. The pre-requisites / conditions are subject to changes by Faculties from time to time, and students are advised to check with their Faculty Office in case of doubt.