



COMP  
COMPUTING

AMA  
APPLIED  
MATHEMATICS

# Unlock Your Digital Potential Discover Your Journey with FCMS



DSAI  
DATA SCIENCE  
AND ARTIFICIAL  
INTELLIGENCE

# World Rankings

QS World University Rankings 2026



**54<sup>th</sup>**  
worldwide  
14<sup>th</sup> in Asia

THE World University Rankings 2025



**84<sup>th</sup>**  
worldwide  
18<sup>th</sup> in Asia

U.S. News & World Report's Best Global Universities Rankings 2025-2026



**58<sup>th</sup>**  
worldwide  
11<sup>th</sup> in Asia

The Hong Kong Polytechnic University (PolyU) is renowned for its top-notch research that delivers real-world solutions. Our academic programmes and innovative projects have gained recognition both nationally and internationally.

>>> **31<sup>st</sup>** in "Statistics and Operational Research" by subject 2025

>>> **40<sup>th</sup>** in "Data Science and Artificial Intelligence" by subject 2025

>>> **66<sup>th</sup>** in "Mathematics" by subject 2025

>>> **76<sup>th</sup>** in "Computer Science and Information Systems" by subject 2025

>>> **3<sup>rd</sup>** THE Worlds' Most International Universities in the world 2025

>>> **7<sup>th</sup>** THE Young University Rankings 2024

>>> **74<sup>th</sup>** in "Computer Science"

>>> **25<sup>th</sup>** in "Computer Science"

>>> **28<sup>th</sup>** in "Artificial Intelligence"

>>> **36<sup>th</sup>** in "Mathematics"

Expertise in

## Computing, Mathematics, Data Science, and Artificial Intelligence

The Faculty of Computer and Mathematical Sciences (FCMS) comprises three dynamic and vibrant departments:

Department of Applied Mathematics (AMA)



Department of Computing (COMP)



Department of Data Science and Artificial Intelligence (DSAI)



Our programmes are designed to nurture the next generations with professional skills and a global vision, empowering them to make a positive impact on society and humanity.



**Targeted Curriculum Design**

A strong emphasis on the integration of applied mathematics, financial technology, digital transformation and AI to meet market demands.



**Balanced Theory and Practice**

Providing ample opportunities for internships and international exchanges to enhance students' practical skills and global perspective.



**Focus on Critical Thinking and Professional Skill Development**

Equipping graduates with diverse competencies to adapt flexibly to the ever-changing industry landscape.



YEAR

1

all students  
at FCMS will  
embark on  
the Common  
Year One  
curriculum

## Bachelor's Degree Scheme

Students who would like to explore their academic interests can be admitted to the **Bachelor's Degree Scheme** and choose their preferred Major within the Faculty by the end of their first year of study through a ranking assessment.

### Bachelor's Degree Scheme in Computer and Mathematical Sciences (JS3006)

The Bachelor's Degree Scheme in Computer and Mathematical Sciences features a unique Common Year One curriculum, providing students with the flexibility to explore their passions and career goals.

## Departmental Scheme

Students with specific academic goals can be admitted directly to their preferred **Departmental Scheme** and choose their preferred Major within the Department by the end of their first year of study.

Department of  
Applied Mathematics

# AMA



### Bachelor of Science (Honours) Scheme in Applied Mathematics and Finance Analytics (JS3220)

Applied Mathematics merges mathematical theory with practical applications to solve real-world problems. Students can learn to analyse data effectively, model complex systems, and make informed decisions in areas like finance and insurance.

Department of  
Computing

# COMP



### Bachelor of Science (Honours) Scheme in Computing and AI (JS3868)

Computer Science integrates technology and innovation dynamically to tackle complex challenges. Students will build a solid foundation in programming, computational thinking, data structures, and algorithms, essential for developing professional computer systems and software.

Department of Data Science  
and Artificial Intelligence

# DSAI



### Bachelor of Science (Honours) Scheme in Data Science and Artificial Intelligence (JS3223)

Data Science and Artificial Intelligence focuses on extracting insights from data and creating intelligent systems. Students will acquire strong analytical skills and cutting-edge AI knowledge, integrating mathematics, statistics, and computer science.

Choose from **7 Majors**

Choose from **3 Majors**

Choose from **2 Majors**

Choose from **2 Majors**

YEAR

2-4

students can choose their  
preferred Major

## Major Programmes

### BSc (Hons) in Applied Mathematics\*

- Emphasises on solid knowledge in mathematical method applications and statistical analysis
- Ideal for students interested in becoming future mathematics professionals or applied mathematicians

### BSc (Hons) in Investment Science and Finance Analytics\*

- Focuses on strategic use of data and mathematical modelling in financial analysis and investment decisions
- Suitable for students who want to pursue careers in investment banking, fund management or risk management

### BSc (Hons) in Quantitative Finance and FinTech

- Combines the strategic use of IT technology and FinTech elements such as blockchain technology in finance
- Perfect for students aspiring to become finance and FinTech professionals and apply their mathematical and statistical skills in the digital finance landscape

### BSc (Hons) in Computer Science

- Focuses on applying computing theories and programming methodologies to design and develop computer systems and software
- Ideal for students who want to become professional computer systems and software analysts or developers

### BSc (Hons) in Enterprise Information Systems

- Emphasises on applying computing technologies and analysing enterprise data or information to develop and manage business solutions and systems
- Suitable for students who want to leverage computing technologies to optimise business process within a dynamic enterprise environment

### BSc (Hons) in Data Science and Analytics<sup>^</sup>

- Focuses on a solid foundation in data science and hands-on data analytical and programming skills
- Perfect for students who want to pursue careers as data analysts across various industries, including information technology, marketing and research, healthcare, business retail, urban planning, and government sectors

### BSc (Hons) in Financial Technology and Artificial Intelligence

- Equips students with good fundamental computing knowledge with a focus on AI, sound finance concepts, and strong intellectual and practical skills
- Suitable for students aspiring to become financial technologists by leveraging artificial intelligence in the fast-growing FinTech industry

## Enrichment Features

### Secondary Majors

**Artificial Intelligence and Data Analytics (AIDA)**

*\* Available to students in these majors*

**Innovation and Entrepreneurship (IE)**

*^ Available to students in this major*

### Minors

Find out more  
study options here

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### Student Exchange

**Internship & Work-Integrated Education (WIE)**

# Discover Your Undergraduate Pathway with FCMS



# Student Enrichment Opportunities



## Student Exchange Programmes

The Student Exchange Programmes at The Hong Kong Polytechnic University (PolyU) offer a transformative experience that enhances students' academic learning and encourages cultural integration. Students may study abroad at one of PolyU's many partner institutions around the globe in over 40 countries and regions.

## Global Short-term Study Programmes and Study Tours

Departments of FCMS organise comprehensive study programmes and tours to a diverse range of international destinations, including Busan, Cambridge, Hangzhou, Kyoto, New York, Seoul, Singapore, and Sydney. These initiatives provide students invaluable chances to engage with prestigious universities, leading enterprises, and influential NGOs, allowing them to gain first-hand insights into the worlds' latest developments and trends.



## Workshops on Essential Skills Development

We also offer a range of workshops designed to equip students with essential skills that complement their academic pursuits. Workshops such as 'Introduction to AI and Entrepreneurship' and 'CV Writing' provide insightful sharing for students to expand their knowledge and develop practical skills in high-demand areas.



## Internship and Work-Integrated Education (WIE)

The internship opportunities and Work-Integrated Education (WIE) programme, available both locally and globally, enable students to gain practical experience and on-the-job training. This bolsters their professional skills, independent thinking, effective communication, and global perspective. To provide diverse learning opportunities and enhance employability, we partner with renowned international companies and government bodies, including Hong Kong Monetary Authority, Hospital Authority, HSBC, IBM, and Microsoft.

## Academic Competitions and Contests

Students are encouraged to participate in a variety of regional and international academic competitions and contests, which provide a dynamic platform for them to showcase their talents and extend their learning beyond the classroom.

## Career Prospects of Our Graduates



Asset Management

BUSINESS SERVICES

Commercial/Investment Banks

Digital Marketing



ENTREPRENEURSHIP

Education

Government

HEALTHCARE

Insurance

IT and Software Development

LOGISTICS

Marketing Research

Securities Institutions

TELECOMMUNICATIONS



# Entrance Requirements

## JUPAS Applicants

with **HKDSE** qualification

### ➤ The minimum requirements

4 Core Subjects

English Language <b>3</b>	Chinese Language <b>3</b>
Mathematics <b>2</b>	Citizenship & Social Development <b>Attained</b>

+

2 Elective Subjects  
(including M1/M2)

Elective 1 <b>3</b>	Elective 2 <b>3</b>
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### ➤ Admission Score will be calculated based on **BEST 5** Subjects

### ➤ Preferred Subjects

There is no compulsory subject requirement. Preferred subjects with a **higher weighting** for admission score calculation may include:

- Biology
- Business, Accounting and Financial Studies
- Business, Accounting and Financial Studies (Accounting)
- Business, Accounting and Financial Studies (Business Management)
- Chemistry
- Economics
- English Language
- Information and Communication Technology
- Mathematics
- Mathematics (Extended part - Algebra and Calculus)
- Mathematics (Extended part - Calculus and Statistics)
- Physics

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More details



## Applicants with Other Qualifications

Students need to fulfil the University's general admission requirements and English language requirements.

### ➤ GCE A-Level / International A-Level

Students who gain admission typically attain at least 3B in three A-Level subjects.

### ➤ International Baccalaureate (IB)

Students who gain admission typically attain an IB Diploma with 32 points or higher.

### ➤ Advanced Placement (AP)

High school completion with an overall average of 80% or above, grade 3 or above in two Advanced Placement (AP) subjects, and either i) a total score of 1190 or above in SAT or ii) a Composite Score of 24 or above in ACT.

**Note:** Precalculus, Calculus AB and Calculus BC are only counted as one Advanced Placement (AP) subject.

### ➤ Mainland Gaokao

Students are expected to achieve excellent results in the current year's Chinese Mainland Joint Entrance Examinations with a strong English score. Interview performance and non-academic achievements may also be considered.

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More admissions details



## Find out more

Department of Applied Mathematics (AMA)



Department of Computing (COMP)



Department of Data Science and Artificial Intelligence (DSAI)



<https://www.polyu.edu.hk/fcms/>  
[fcms.enquiry@polyu.edu.hk](mailto:fcms.enquiry@polyu.edu.hk)

