



Dream big
Go further
Define your journey
with FCMS

UNDERGRADUATE
PROGRAMME GUIDE

2026/27

World Rankings

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. We are proud of our achievements and our strong standings in global rankings.



QS World University
Rankings 2027

50th
(10th in Asia)

QS World University Rankings
by Subject 2026

. 40th
in "Statistics and
Operational Research"

. 51st-100th
in "Data Science and
Artificial Intelligence"

. 68th
in "Mathematics"

. 70th
in "Computer Science and
Information Systems"



THE World University
Rankings 2026

80th
(18th in Asia)

THE World University Rankings
by Subject 2026

. 70th
in "Computer Science"



U.S. News & World Report's
Best Global Universities
Rankings 2026-2027

52nd
(11th in Asia)

Best Global Universities Rankings
by Subject 2026-2027

. 23rd
in "Computer Science"

. 23rd
in "Artificial Intelligence"

. 37th
in "Mathematics"

Expertise in Computing, Mathematics, Data Science, and Artificial Intelligence

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.



Discover Your Undergraduate Pathway with FCMS

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.

AMA | Department of Applied Mathematics



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

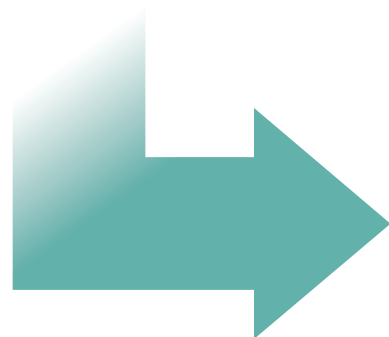
Applied Mathematics merges mathematical theory with practical applications to solve real-world problems. Students can learn to analyse data effectively, model complex systems, and make informed decisions in areas like finance and insurance.

Choose from **3** Majors

Year

2-4

Students can choose their preferred Major



Choose from **8** Majors

BSc (Hons) in Applied Mathematics

- Emphasises 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 computer 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



COMP

Department of
Computing



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.

Choose
from **2** Majors

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 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 processes within a dynamic enterprise environment

DSAI

Department of Data Science
and Artificial Intelligence



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 **3** Majors

BSc (Hons) in Artificial Intelligence

- Emphasises a strong foundation in AI algorithms and computing principles, enabling students to become future experts in AI system design and contribute to technological growth
- Designed for students who are passionate about AI and aspire to apply AI technologies innovatively to diverse domains to create a positive impact

BSc (Hons) in Artificial Intelligence with Financial Technology

- 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

BSc (Hons) in Data Science and Analytics

- 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

Explore Your Academic Journey

Major + Minor

Expand your knowledge with

30+ minors
across the University



Examples:



Applied Psychology



Business Administration



Design



Finance



Food and Nutritional Science



Electronic Systems and Internet of Things



Linguistics and Translation



Marketing



Mechanical Engineering



Supply Chain Management and Analytics

and etc...

Major + Secondary Major

Integrate a specialisation into your degree and enhance future career opportunities. This option is available only to students enrolled in the following programmes:

Department	Programme	Secondary Major
AMA	BSc (Hons) in Applied Mathematics	Artificial Intelligence and Data Analytics (AIDA) Incorporates interdisciplinary and integrated programmes to equip students with AI computational thinking and data analytics acumen.
	BSc (Hons) in Investment Science and Finance Analytics	
DSAI	BSc (Hons) in Data Science and Analytics	Innovation and Entrepreneurship (IE) Equip students with an entrepreneurial mindset and the ability to apply innovative strategies to develop creative solutions that benefit both organisations and society in the age of digital transformation.

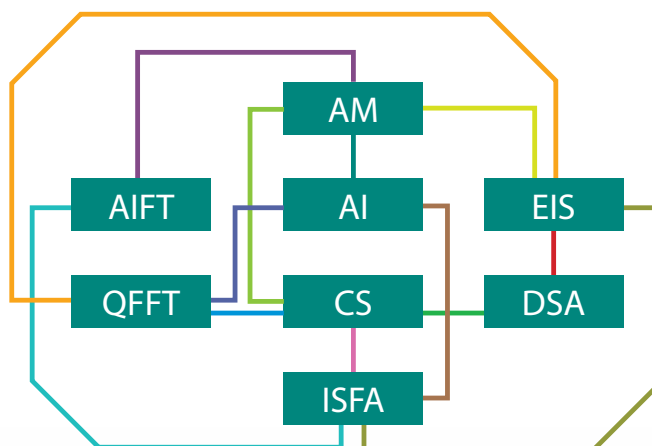


Double Major

Broaden your expertise by pursuing two majors within FCMS and receive two award parchments upon successful completion of the programme. Available Double Major study options are:

1. Applied Mathematics + Artificial Intelligence
2. Applied Mathematics + Artificial Intelligence with Financial Technology
3. Applied Mathematics + Computer Science
4. Applied Mathematics + Enterprise Information Systems
5. Artificial Intelligence + Investment Science and Finance Analytics
6. Artificial Intelligence + Quantitative Finance and FinTech
7. Artificial Intelligence with Financial Technology + Investment Science and Finance Analytics
8. Computer Science + Data Science and Analytics
9. Computer Science + Investment Science and Finance Analytics
10. Computer Science + Quantitative Finance and FinTech
11. Data Science and Analytics + Enterprise Information Systems
12. Enterprise Information Systems + Investment Science and Finance Analytics
13. Enterprise Information Systems + Quantitative Finance and FinTech

AM: Applied Mathematics
 AI: Artificial Intelligence
 AIFT: Artificial Intelligence with Financial Technology
 CS: Computer Science
 DSA: Data Science and Analytics
 EIS: Enterprise Information Systems
 ISFA: Investment Science and Finance Analytics
 QFFT: Quantitative Finance and FinTech



Fast-Track Programmes

For high-achievers to earn both the Bachelor's and Master's degrees in less time and with reduced tuition cost.

Department	Bachelor's Degree Programme	Master's Degree Programme
AMA	BSc (Hons) in Applied Mathematics	MSc in Operational Research and Risk Analysis
	BSc (Hons) in Investment Science and Finance Analytics	MSc in Quantitative Finance and FinTech
	BSc (Hons) in Quantitative Finance and FinTech	
COMP	BSc (Hons) in Computer Science	MSc in Information Technology
	BSc (Hons) in Enterprise Information Systems	
DSAI	BSc (Hons) in Data Science and Analytics	MSc in Data Science and Analytics
	BSc (Hons) in Financial Technology and Artificial Intelligence	MSc in Artificial Intelligence and Big Data Computing

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.

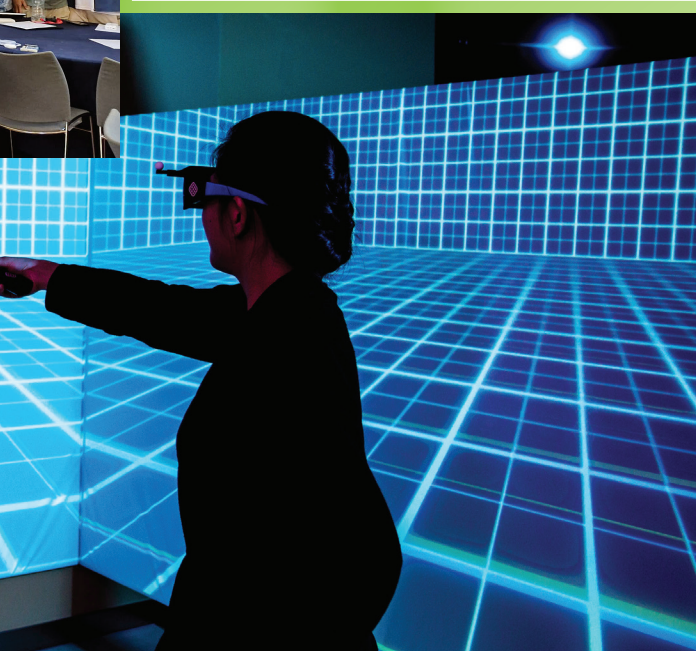
Global Short-term Study Programmes and Study Tours

FCMS and its departments 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 with invaluable chances to engage with prestigious universities, leading enterprises, and influential NGOs, allowing them to gain first-hand insights into the world's latest developments and trends.

Internship and Work-Integrated Education (WIE)

The internship opportunities and Work-Integrated Education (WIE) programme, available both locally and globally, give students practical experience and on-the-job training. This strengthens 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.





Workshops and Competitions

Students get hands-on opportunities to learn, compete, and stand out — from workshops such as “Introduction to AI and Entrepreneurship” and “CV Writing” to regional and international academic competitions. It’s a chance to build confidence, develop new skills, and take learning well beyond the classroom.

Undergraduate Research and Innovation Scheme (URIS)

This two-year University-funded scholarship scheme offers an enquiry-based learning experience that empowers PolyU undergraduate students to build research track records, expand professional networks, deepen knowledge in their fields, and develop the skills and insight needed to pursue research careers in Hong Kong and beyond.

Career Prospects of our Graduates

- Asset Management
- Business Services
- Commercial / Investment Banks
- Digital Marketing
- Education
- Entrepreneurship
- Government
- Healthcare
- Insurance
- IT and Software Development
- Logistics
- Marketing Research
- Securities Institutions
- Telecommunications



Sharing by FCMS Community

Sharing by Graduates

TANG Chun Ling, Ivan
*Class of 2025, BSc (Hons) in
Data Science and Analytics*



I am passionate about technology, entrepreneurship and innovation. During my studies at PolyU, I co-founded two start-ups, turning digital ideas into practical solutions for businesses and society. Supported by programmes such as the Cyberport University Partnership Programme (CUPP) and the HKSTP Ideation Programme, I gained valuable exposure to the start-up ecosystem. My studies in data science and analytics also gave me a strong foundation for solving real-world problems.

For those considering their next step, PolyU offers an inspiring environment for innovation, hands-on learning and interdisciplinary collaboration. I encourage prospective students to make the most of the opportunities available and pursue their ideas with confidence and purpose.

Sharing by Students

LAM Ho Kwan, Alvin
*Year 1, Bachelor's Degree Scheme in
Computer and Mathematical Sciences*



I chose FCMS because it offers flexibility for students to explore their interests and strengths before selecting a major. This structure has helped me better understand my abilities and future direction. FCMS also provides strong support through its dedicated academic staff, who offer guidance on both studies and career planning. My experience here has been meaningful and inspiring. I have learnt a lot and become more confident in facing future challenges.

Sharing by Students

WO Yat Long, Donny
Year 1, BSc (Hons) Scheme in Computing & AI



FCMS offers a friendly and supportive environment where students can learn, explore and grow. One of the most valuable parts of my journey has been joining the wide range of activities organised by the Faculty and student societies. Through the activities, I have met many new friends and broadened my horizons.

I am also honoured to serve as President of the FCMS Student Association (FCMSSA) for the 2026-27 session. Taking up this role has strengthened my communication, leadership and team coordination skills. My time at PolyU has helped me grow academically and personally, and I look forward to creating even more unforgettable experiences in FCMS.

Sharing by Students

HUNG Tsz Hin, Hinson
*Year 1, BSc (Hons) Scheme in Data Science and
Artificial Intelligence*

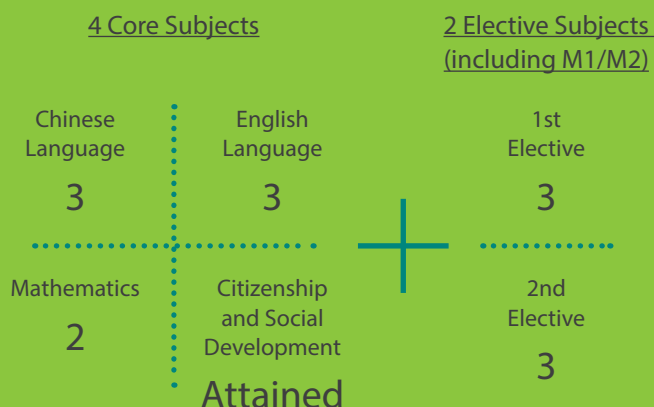


I chose the Data Science and AI programme because it brings together my interests in mathematics, computing, and problem-solving. I am fascinated by how data shapes our world and how AI is already changing everyday life. This programme is especially appealing because it explores computer science, mathematics and real-world applications in depth. For students who are curious, enjoy solving problems and want to explore the possibilities of future technology, FCMS is a great place to begin!

Admission Requirements

JUPAS Applicants with HKDSE qualification

The minimum requirements



Admission Score
will be calculated
based on

BEST **5**
subjects

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.

Preferred Subjects

There is no compulsory subject requirement. Preferred subject(s) with the higher weighting for admission score calculation include(s):

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



More admissions details



🌐 <https://www.polyu.edu.hk/fcms/>
✉ fcms.enquiry@polyu.edu.hk



Department of
Applied Mathematics
(AMA)



Department of
Computing
(COMP)



Department of
Data Science and Artificial Intelligence
(DSAI)