

2026/27

JUPAS Code: JS3868

Bachelor of Science (Honours)

Scheme in **COMPUTING** and **AI**

**電子計算及人工智能** (榮譽) 理學士組合課程



SHAPING AND TRANSFORMING  
THE FUTURE WITH COMPUTING

# Department Ranking

25<sup>th</sup>



U.S. News & World Report 2025 in Computer Science

40<sup>th</sup>



Global Ranking of Academic Subject 2024 in Computer Science & Engineering

74<sup>th</sup>



The Times Higher Education World University Rankings 2025 in Computer Science

76<sup>th</sup>



QS World University Subject Rankings 2025 in Computer Science & Information Systems

## Features



**Applied and Practical**  
Covers Up-To-Date Practical Skills



**Rich Study Pathways**  
Minor Study and Specification Stream



**Experiential Learning**  
Career Preparation + Non-Local Learning Experience



**Professional Development**  
Training and Certification Programmes



**Computing for Everyone**  
Students with Backgrounds in Arts, Science or Business are welcome to apply

## Scheme Structure

**Experiential Learning**

Work Experience & Non-Local Learning Experience

Final Year

Year 3

Year 2

Year 1

Common Fundamental Year

Broadening Year

Strengthening Year

Specialisation Year

Award

Normal Duration: 4 years

BSc (Hons) in Computer Science

BSc (Hons) in Enterprise Information Systems

Articulation to Postgraduate Programmes

MPhil / PhD in Computing

MSc in Information Technology  
Blockchain Technology  
Metaverse Technology

## Credit Distribution

Normal Study Pattern

Experiential Learning

12 training credits

Free Elective

16 credits

General University Requirements (GUR)

27 credits

120 academic credits

+ 12 training credits

Programme Compulsory

59 credits

Programme Elective

18 credits

Fast Track Integrated Bachelor's and Master's Programme

4 years

BSc Scheme (Hons) in Computing and AI

+

1 year

MSc in Information Technology (MScIT)

=

Graduation with 9 Credits LESS in MScIT (= Save HK\$74,700\*)

\* The tuition fee of the MSc in Information Technology for admission in year 2026/27 is HK\$8,300 per credit for local and non-local students. The tuition fee is subject to change without notice.



# Bachelor of Science (Hons) in Computer Science



Features a rich set of Electives that cover real-life applications, such as **Data Mining, Multimedia and Game Programming, E-Commerce, Financial and Social Computing.**



## Programme Aims

Aims to equip graduates with solid computing foundations in areas such as **programming, computational thinking, data structure** and **algorithms** which will allow them to develop professional computer systems and software. Students develop strong problem-solving abilities and become highly competent in software development for virtually all sectors.



"After obtaining my bachelor degree from PolyU, I pursued an MPhil degree at the University of Cambridge. I am currently continuing my PhD studies at Cambridge, focusing on Artificial Intelligence and Large Language Models. My studies at COMP provided me with a solid foundation in computer science through various courses and research opportunities, which sparked my interest in language processing and cognitive science."

**ZHANG Caiqi** (Class of 2022)



## Career Prospects



## Curriculum

Year of Study	Key Objective	Core Subject Highlight
<b>Year 1</b> (Common Fundamental Year)	Build fundamental knowledge in computing and analytics	<ul style="list-style-type: none"><li>Computational Thinking and Problem Solving</li><li>Programming Fundamentals</li></ul>
<b>Year 2</b> (Broadening Year)	Explore core computer science disciplines	<ul style="list-style-type: none"><li>Data Structures</li><li>Discrete Mathematics</li><li>Object-oriented Programming</li><li>Database Systems</li><li>Computer Networking</li><li>Computer Organization</li><li>Operating Systems</li></ul>
<b>Year 3</b> (Strengthening Year)	Deepen technical expertise and design thinking	<ul style="list-style-type: none"><li>Software Engineering</li><li>Human-Computer Interaction</li><li>System Programming</li><li>Computer Systems Security</li><li>Legal Aspects and Ethics of Computing</li></ul>
<b>Year 4</b> (Specialisation Year)	Apply knowledge through Capstone Project	<ul style="list-style-type: none"><li>Capstone Project</li></ul>

## Stream

Depending on your own interests and career plans, students can select elective subjects in the streams and obtain a certificate of recognition from COMP upon fulfilling the subject requirements.

Stream of AI & Big Data	Stream of Systems & Infrastructures	Stream of Computing Theory
<b>Elective Subject Highlight:</b> <ul style="list-style-type: none"><li>Computer Vision</li><li>Artificial Intelligence</li><li>Machine Learning</li><li>Data Mining and Data Warehousing</li><li>Big Data Analytics</li><li>Artificial Intelligence of Things</li><li>Business Intelligence and Customer Relationship Management</li><li>Knowledge and Information Management</li><li>Data Protection and Security</li></ul>	<b>Elective Subject Highlight:</b> <ul style="list-style-type: none"><li>Database Security</li><li>Internetworking Protocol, Software and Management</li><li>Principles and Practice of Internet Security</li><li>Service and Cloud Computing</li><li>Web Application Design and Development</li><li>Mobile Computing</li><li>Artificial Intelligence of Things</li></ul>	<b>Elective Subject Highlight:</b> <ul style="list-style-type: none"><li>Design and Analysis of Algorithms</li><li>Theory of Computation</li><li>Computational Methods</li><li>Numerical Methods and Computing</li><li>Simulation</li><li>Algorithms Engineering</li><li>Machine Learning</li><li>Big Data Analytics</li><li>Optimization Methods</li><li>Number, Combinatorics and Statistics</li></ul>

# Bachelor of Science (Hons) in Enterprise Information Systems



A balanced curriculum that covers **technology, management and business** and emphasises computing techniques and applications, and software design and development skills in the business sector.



## Programme Aims

Aims to provide graduates with a good foundation in both business and technical skills. Graduates are competent in **investigating business systems, identifying options for improving those systems** and **bridging the needs of business with the use of IT**. They also have the ability to develop information systems and manage business projects in the commercial sector.



"I opted for PolyU COMP because of its curriculum's alignment with industry trends and emphasis on real-world applications. In the first year, students start with theoretical foundational courses and have the opportunity to explore different interests before choosing specialisations."

**Leandra Leung** (Class of 2025)



## Career Prospects



Business Analyst



Project Manager



Information Systems Manager

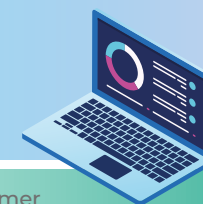


Management Executive



## Curriculum

Year of Study	Key Objective	Core Subject Highlight
<b>Year 1</b> (Common Fundamental Year)	Build fundamental knowledge in computing and analytics	<ul style="list-style-type: none"><li>Computational Thinking and Problem Solving</li><li>Programming Fundamentals</li></ul>
<b>Year 2</b> (Broadening Year)	Explore computing and business fundamentals	<ul style="list-style-type: none"><li>Data Structures</li><li>Object-oriented Programming</li><li>E-business</li><li>Database Systems</li><li>Computer Networking</li><li>Management and Organization</li></ul>
<b>Year 3</b> (Strengthening Year)	Develop advanced technical and managerial skills	<ul style="list-style-type: none"><li>Business Intelligence and Customer Relationship Management</li><li>Software Engineering</li><li>Human-Computer Interaction</li><li>Software Project Management</li><li>Legal Aspects and Ethics of Computing</li></ul>
<b>Year 4</b> (Specialisation Year)	Apply knowledge through Capstone Project	<ul style="list-style-type: none"><li>Capstone Project</li></ul>



## Stream

Depending on your own interests and career plans, students can select elective subjects in the streams and obtain a certificate of recognition from COMP upon fulfilling the subject requirements.

### Stream of Data Analytics

#### Elective Subject Highlight:

- Information Retrieval
- Knowledge and Information Management
- Data Mining and Data Warehousing
- Big Data Analytics
- Social and Collaborative Computing
- Operations Research and Logistics Management
- Computational Finance
- Protection and Security
- E-Payment and Cryptocurrency





# Experiential Learning



We promote all-round development by encouraging students to apply classroom knowledge in real-world settings. Through **Work Experience** and **Non-Local Learning Experience**, students gain hands-on experience and global exposure, connecting with industry professionals and diverse cultures.

## Options

01

6-Month Internship and International Learning Opportunities

02

Work-Integrated Education and Outbound Exchange

## Career Preparation

### 6-Month Internship Programme / Work-Integrated Education (WIE)

Our students gain practical experience at leading organisations such as HKMA, HA, HSBC, IBM, Microsoft, and ASTRI. Many also participate in overseas internships in countries like the US, Canada, France, Germany, Japan, and Singapore, enhancing their cross-cultural and professional competencies.



“

My time as an Analyst at HSBC's transformation team taught me how the world of technology enables processes within a banking institution. Working my way up from small projects, while attending classes at university in the evening, I learnt to zoom in and out of contexts, developing and brainstorming solutions with stakeholders from vastly different backgrounds, united by our passion to make the journey for every customer exciting, personalised and accessible.

**SREEKUMAR Sidharth**, BSc (Hons) in Computer Science

”



## Non-local Learning Experience

### Outbound exchange / International learning

Our students spend between two and six months at different universities to experience new cultures, expand vision, make new friends from around the world and develop social skills that are beneficial to their future career success. We also provide a broad range of activities, including international competitions, summer research abroad, study tours, and overseas service-learning.



“

Participating in an enriching exchange programme in Germany during my second year has sharpened my adaptability and intercultural communication skills, bolstering my future career prospects.

**Leandra Leung**

*(Class of 2025) – BSc (Hons) in Enterprise Information Systems*

”



“

There are also a lot of opportunities for learning beyond the classroom, I will be leaving for a service learning project in Rwanda with my academic advisor where we will be installing solar panels with the local youth.

**EREN Arda**

*BSc (Hons) in Computer Science*

”





# Student Development



We empower students to grow beyond the classroom through diverse enrichment opportunities.

## Competition

Students with a passion for tech competitions receive support in training, equipment, and funding. They also have the chance to gain hands-on experience by contributing to the competition organisation.



▲ 2024 ICPC Asia East Continent Hong Kong Regional Contest



▲ Global Game Jam



▲ Nvidia "Fundamentals of Deep Learning" Certificate Training Programme

## Training and Certification Programme

In collaboration with industry partners, we offer professional training and certification programmes that enhance practical skills and boost

## Workshops and Seminars

We regularly organise workshops and seminars that feature tech trends, career planning and society issues—broadening students' perspectives beyond the curriculum.



▲ CV writing workshop



▲ Tech Talks by World-class Distinguished Speakers



▲ Open Forum: "AI and Fintech Applications for Banking, Finance and Servicing Industry"

# Learning Resources and Support

We provide comprehensive facilities and guidance to support academic success.



## IT Facilities



Computer Labs with 130 High-Performance Workstations



Printing Facilities for COMP Students



Project Lab for Group Discussion and Collaborative Work



High-Performance Computing (Apulis AI Studio / NVIDIA DGX A800)



## Academic Advising

Each full-time student is paired with a designated academic advisor for personalised guidance throughout their studies.

## Scholarships

Students with outstanding achievements in academic and/or non-academic pursuits are offered a wide range of scholarships by PolyU and COMP.



▲ Au Bak Ling Charity Trust Scholarship



▲ InfoTech Job Market Driven Scholarship

# Entrance Requirements

We accept students from all backgrounds - arts, science, or business. Our Scheme in Computing and AI has the same entrance requirements as other programmes in PolyU. They are:

## For Entry with HKDSE Qualifications

Four core subjects and two elective subjects with:

Level 3  
English Language

Level 3  
Chinese Language

Level 2  
Mathematics

Level 3  
Elective<sup>^</sup>

Level 3  
Elective<sup>^</sup>

Attained  
Citizenship and  
Social Development

<sup>^</sup> M1/ M2 are also considered as electives

Preferred subjects include English, Mathematics, Extended Modules of Mathematics (M1/ M2), Information and Communication Technology (ICT), Physics/ Biology/ Chemistry, Business, Accounting and Financial Studies (BAFS), and Economics.

## Apply via JUPAS

(Joint University Programmes Admissions System)

<http://www.jupas.edu.hk>

## Alternative Entry Route

All applicants must fulfil the General Entrance Requirement and English Language Requirement to be considered for admission.

### A-Level qualifications:

#### Pass in 3 A-Level subjects

Applicants who gain admission, typically, attain at least 3B in 3 AL subjects.

### International Baccalaureate (IB)<sup>#</sup>:

#### IB Diploma

Successful applicants typically achieved an International Baccalaureate (IB) score of 32 or higher out of 45 in recent years. Candidates with a predicted IB score of 30 or above may be considered for an admission interview.

### Other qualifications:

- |   |  |  |
|---|--|--|
| a) An appropriate Diploma passed with credit or an appropriate Higher Certificate from a recognised institution; OR | b) An appropriate Associate Degree / Higher Diploma from a recognised institution*; OR | c) Holder of other non-local qualifications (please refer to PolyU's Guidelines on Non-local Qualifications for more details about our general requirements for such qualifications) |
|---|--|--|

Applicants who gain admission, typically, attain a GPA between 3.2 and 3.7.


<sup>\*</sup> Applicants with Associate Degree / Higher Diploma from recognised institutions applying for 1st year entry may be granted credit transfer at a maximum of 25% of the credit requirement of a 4-year full-time undergraduate degree scheme / programme. For those who would like to seek senior year admission to PolyU's degree programmes and follow a reduced curriculum of 60 to 70 credits, please refer to PolyU's undergraduate admissions webpage for more details.

<sup>#</sup> Applicants with A-Level / IB qualifications, or the equivalent, may be granted a maximum of 25% credit transfer for the award requirement. Each case will be considered based on individual merits.

## Apply via Non-JUPAS

[www.polyu.edu.hk/study](http://www.polyu.edu.hk/study)

## Contact

 [comp.ug@polyu.edu.hk](mailto:comp.ug@polyu.edu.hk)

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