Unique common first year with flexible programmes to choose
New and unique FinTech & AI Programme with attractive career opportunities
Choice of minor in other departments or faculties
Internship option to gain up to 32-week work experience
Overseas exchange and international learning opportunities to enhance global outlook
Professional Training/ Certification Programmes to strengthen employability

Broad Discipline of Computing
Shaping and Transforming the Future with Computing

JUPAS CODE: JS3868
WHY STUDY COMPUTING WITH US

Different programmes to choose from
All students will study common computing subjects in year one. Selection of major is in year two so that students can choose the major degree that is most suitable for themselves.

Brand new and unique FinTech & AI Programme
The first bachelor degree in Hong Kong that combines Financial Technology and Artificial Intelligence. There is a huge demand for financial technologists and AI talents with the government’s vision to transform Hong Kong into a smart city.

Ample internship opportunities
Local enterprises provide internship opportunities to students so that they can obtain up to 32-week full-time work experience in the second semester and summer in year three.

Choice of minor in other departments/faculties
Our programme structure facilitates students to study a minor degree simultaneously with the major, for example, major in Computing and minor in Accountancy, Business Economics, Management, Mechanical Engineering, Design or Applied Mathematics.

Excellent overseas exchange programmes
Students may have the opportunities to study at renowned institutions in foreign countries, enlightening and enriching their study lives.

Strong support for professional training/certification
We integrate tertiary education with professional training/certification so that students are provided with practical knowledge/skills and extra-curricular guidance to strengthen their employability.

Close industry connection
We partner with the industry to organise seminars and workshops on new technologies regularly to enhance students’ practical knowledge and skills.

Holistic learning and development opportunities
We encourage students to broaden their horizons by taking part in Service-Learning, study tours and competitions. For example, our students won the championship in the 2016 and 2017 Microsoft Imagine Cup Hong Kong and represented Hong Kong to participate in the world final in Seattle.

New Global Computing Scholarship
The twelve students admitted via JUPAS with the best academic result in the first semester of year one will be granted this scholarship so that they can apply for the summer programme hosted by overseas universities such as the University of Cambridge.

Please find out more in this brochure and on our website www.comp.polyu.edu.hk.

We invite you to join our family!
**BSc (Hons) in Computing**
This programme emphasises on applying computing theories and programming methodologies to design and develop computing systems and software.

**Subjects Highlight**
- Game Design and Development
- Human-Computer Interaction
- Data Mining and Data Warehousing
- Big Data Analytics

**Typical Careers**
- Software Engineer/ Architect
- Game Developer
- System Analyst
- Data Scientist

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**BSc (Hons) in Financial Technology and Artificial Intelligence***
This programme emphasises on applying computing technologies with a focus on artificial intelligence to develop, manage and transform finance systems and solutions.

**Subjects Highlight**
- Business Finance
- E-Payment and Crypto Currency
- Emerging Topics in FinTech
- Machine Learning

**Typical Careers**
- Finance/ AI Consultant
- Financial Data Analyst
- FinTech System Developer
- FinTech Entrepreneur

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**BSc (Hons) in Information Technology**
This programme emphasises on integrating computing devices, systems and software to design and implement IT architectures for advanced applications.

**Subjects Highlight**
- Computer Networking
- System Programming
- Internet and System Security
- Mobile Computing

**Typical Careers**
- Data Centre Administrator
- Mobile Apps Developer
- IT Security Specialist
- IT Architect

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**BSc (Hons) in Enterprise Information Systems**
This programme emphasises on applying computing technologies and analysing enterprise data/ information to develop and manage business solutions and systems.

**Subjects Highlight**
- Business and Information Systems Strategies
- Software Project Management
- IT Entrepreneurship
- Information Systems Audit and Control

**Typical Careers**
- Management Executive
- Business Analyst
- Project Manager
- Information Systems Manager

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*This programme is subject to approval.*
PROGRAMME STRUCTURE

COMMON FUNDAMENTAL YEAR
Some curriculum for all programmes in the first year:
- Computing
- FinTech & AI*
- Enterprise Information Systems
- Information Technology

SPECIALISATION YEAR
- BSc (Hons) in Computing
- BSc (Hons) in Financial Technology and Artificial Intelligence*
- BSc (Hons) in Enterprise Information Systems
- BSc (Hons) in Information Technology

*This programme is subject to approval.
WORK-INTEGRATED EDUCATION (WIE)

PolyU was the first tertiary institution in Hong Kong to incorporate a mandatory Work-Integrated Education (WIE) component into the undergraduate curriculum. All full-time undergraduate students are required to complete a mandatory WIE component as part of their curriculum. Our students have gained valuable work experience at international companies and government bodies such as Hong Kong Monetary Authority, Hospital Authority, HSBC, IBM, Microsoft and ASTRI.

Some of our students undertake international WIE in overseas countries such as the US, Canada, the Netherlands, France, Germany, Denmark, Switzerland, Poland, Russia, Slovakia and Singapore to broaden their cross-cultural understanding which is critical to their future careers and personal development in this globalised era.

INTERNERSHIP

Our four-year curriculum provides an internship option for students to gain up to 32 weeks of full-time work experience in the second semester of Year 3 plus a summer term while graduating in four years. These internship opportunities are offered by various companies in Hong Kong. Students also have the option to take evening classes during the internship period. These opportunities not only enable them to gain real-world experience but also enhance their employability after graduation.

ASM Pacific Technology

“The company provided me with opportunities to become a software engineer and to manage people to complete a large project. I have acquired knowledge about console programming, software engineering and various new technologies. It was a valuable experience hardly gained from school life.”

NG Shing Chi

Hang Seng Bank

“I worked with representatives from different departments for which I realised that both business knowledge and communication skills were important. The internship also enabled me to use many latest digital and project management tools in the real business environment.”

LI Chak Wai

HKT

“I had the chance to learn the theory of networking system and structure of physical wiring of networking sites. I was also taught about many practical Linux commands and MySQL. This equipped me with more technical knowledge and will help me to prepare for my future career.”

MOK Tsz Pui

Hang Seng Bank

Follow internship study pattern to gain up to 32 weeks of full-time work experience

Follow non-internship study pattern (fulfilling WIE requirements by other options)
STUDENT EXCHANGE PROGRAMME

Student exchange can be a life-changing experience. To develop students’ global outlooks and broaden their perspectives, we regularly secure exchange programmes for them. Our students spend between two and six months at universities to experience new cultures, expand their visions, make new friends from around the world and develop social skills that will be beneficial to their future career success.
GLOBAL COMPUTING PROGRAMME

To enrich students’ learning experience at a global level, we have a brand new study abroad programme called “Global Computing Programme” which aims at further broadening students’ knowledge and enhancing their global outlook. Under this programme, selected students are sponsored to join international summer programmes of renowned universities. In summer 2018, seven COMP students were admitted to the Engineering Summer Programme of the Girton College, University of Cambridge to learn advanced technologies such as nanotechnology and quantum technologies. Two other COMP students also joined the four-week Vancouver Summer Programme offered by the University of British Columbia in Canada.

“The Engineering Summer Programme was a four-week study organised by Girton College of the University of Cambridge. I learnt a lot about engineering in the courses provided. I also had the chance to visit Oxford and London on weekends. This programme gave me an extraordinary opportunity to experience Cambridge student life and the British culture.”

WONG Ka Man

“I learnt a lot about the algorithms of the Internet during the Vancouver Summer Programme in the University of British Columbia. At the same time, I also experienced the Canadian culture and the natural environment there. The most important thing was I met many new friends in UBC as well.”

YOUNG Chi Chun

UNDERGRADUATE SUMMER RESEARCH ABROAD SPONSORSHIP SCHEME

Undergraduate Summer Research Abroad Sponsorship Scheme (USRA) is a signature student learning scheme of PolyU, which aims to provide financial support to encourage students to undertake research under the guidance and supervision of academics in overseas pre-eminent universities, such as the Massachusetts Institute of Technology (MIT), University of British Columbia (UBC) and Nanyang Technological University (NTU), etc.

“In MIT Geospatial Data Center, we participated in several research projects. Most of them are related to digital learning so that we could help students to learn in an effective way. There are many museums in Boston, such as Museum of Fine Arts, Harvard Art Museum and MIT Museum where we could gain the knowledge of different areas.”

LAM Ping Him

“I had the honour to participate in the research work which was developing a mobile application to collect environment data via vehicle-to-everything communication technology in NTU EEE Smart Mobility Laboratory. The experience at NTU let me understand more about myself and let me know that communication is very important.”

HO Siu Tung
**EXTRA-CURRICULAR ACTIVITIES**

University education is more than classes and examinations. Students’ study lives can be much more fascinating and rewarding with out-of-the-classroom experiences through extra-curricular activities. We provide many opportunities for students to reach their potential and broaden their horizons through participation in interdisciplinary activities and in local, regional and international competitions.

**TRAINING/ CERTIFICATION PROGRAMME (TCP)**

To provide diversified learning opportunities to students, we collaborate with various well-known organisations to integrate tertiary education with professional training/certification. Through this programme, students are provided with practical knowledge/skills and extra-curricular guidance to strengthen their employability.

**Unity TCP**

“I learnt all-rounded skills & procedures to properly develop a game using Unity. Hopefully, I can show my potential employers my ability to be their game developer.”

YEUNG Tsz Fung

**ICMA Affiliate Membership Scheme**

“After I joined the ICMA affiliate membership programme, I participated in some useful workshops. Also, this programme has extended my social network because CMA will organise different events.”

NG Siu Lun

**Corda TCP**

“The Corda workshop introduced me the basic concepts of blockchain as well as smart contract. It provided an opportunity to code business logic with Java under the Corda platform, which is a great way to understand what a distributed ledger is.”

LAM Tsun Fung
CAREER PROSPECTS

We equip our students not only with IT knowledge but also with practical skills such as critical thinking, effective communication, problem-solving and lifelong learning skills, all of which are beneficial to career development. Most of our young alumni now work in various sectors with good prospects.

“PolyU COMP offers different programmes for us to choose. This enables us to develop our career broadly in diverse areas such as finance and banking, engineering, aviation, IT, etc.”

Alfred YUEN - 2016 BSc Graduate Associate Consultant Microsoft Hong Kong

“The Hong Kong Government is dedicated to drive innovation and technology. Computing graduates are quickly employed because there is a high demand for IT talents in the market.”

Oscar LOK - 2016 BSc Graduate Programmer Hospital Authority

“Hong Kong is a knowledge-based economy and IT becomes the backbone of the society. There are many opportunities no matter COMP graduates work in private or public sector or even start own businesses.”

Winston LEUNG - 2013 BSc Graduate Analyst/Programmer II Office of the Government Chief Information Officer

“Everyday I coordinate a team of IT specialists around the world to finish projects. IT is internationalised. Once you acquire the IT knowledge and skills, you can apply in different fields and countries.”

Iris LUI - 2013 BSc Graduate Project Manager Hewlett Packard Enterprise

In PolyU 2017 Graduate Employment Survey, the average starting salary of our graduates reached HK$17,409 which was the second highest in the Faculty of Engineering. Among all the COMP respondents, the top three monthly salaries ranged from HK$30,000 to HK$34,000.

As computing plays an important role in all businesses, our graduates started their career in a wide range of areas, such as IT, FinTech, Healthcare, Government, Logistics, Business Services, Telecom, Digital Marketing, Multimedia and Entertainment, etc. In other words, studying computing allows students to develop their career in many different business sectors.

List of some companies which had employed our graduates:

- Accenture Solutions Ltd
- Cathay Pacific Airways Ltd
- Cheung Kong (Holdings) Ltd
- CITIC Group
- DHL Global Forwarding (Hong Kong) Ltd
- Hewlett-Packard HK SAR Ltd
- HK Electric
- HKSAR Government
- Hong Kong Exchange and Clearing Ltd
- Hospital Authority
- HSBC
- IBM China/Hong Kong Ltd
- Microsoft Hong Kong Ltd
- MTR Corporation Ltd
- NTT DOCOMO, Inc
- Octopus Cards Ltd
- PCCW Ltd
- The Hong Kong Jockey Club

and more...
ALUMNI STORIES

CARE, our education philosophy, reflects our care for students not only in academic advancement but also grooming them to be a future leader, from personal growth to Career development in Application, Research and Entrepreneurship. Here we share the stories of three alumni who excel themselves in these core areas.

Application

PolyU has given me every opportunity to learn in and out of classroom, and apply back to the society. In a class project, my group-mates and I had to design and develop a management system. Rather than directly receiving instructions from professors, we were given roles and responsibilities under a virtual company, and had to collect requirements from virtual clients. It turned out a fun and realistic experience for us.

Then I took a one-year placement in a financial governance company. Being just a student, I was able to handle giant systems which ran globally non-stop and process millions of data. I was overwhelmed to realise how huge the impact my work could have. Meanwhile, I learnt the etiquette and standard of being a real professional.

I also spared time to join various community service activities organised by COMP, which allowed me to apply my ICT knowledge to help underprivileged people. The most memorable experience was building an automated library system for an orphanage school in Gansu, China. It made me to realise how ICT could possibly play a role in the society.

Today, working in the public sector, I am still aspired to utilise my professional knowledge to contribute to all Hong Kong citizens. And I am still an active volunteer team member in my workplace. I am very thankful for what PolyU and COMP cultivated in me.

Gillian LAM - 2012 BSc Graduate

Research

When I came to PolyU Computing in 2010, I did not have any ICT background. I was not a science student. Back in secondary school, my subjects had been geography, history and economics. Though I was on the verge of failing my first programming course at the beginning of the semester, I worked very hard and finished it with an A. I then got involved in doing community service, teaching Lego robots and programming workshops to primary and secondary students as an extra-curricular activity. Through learning how to teach other people effectively, I improved my own grasp of logic and programming.
Entrepreneurship

I initially had the thought of starting my own business when I was studying at PolyU. At that time, I would like to do something challenging while simultaneously allowing me to learn and have fun along the way. Thus, I co-founded “uFinance” with two partners and engaged in a finance project dedicated to university students.

My start-up journey has been stimulating, demanding and exciting. Luckily, we were nominated to join the Cyberport Entrepreneurship Boot Camp, which provided intensive training on developing innovative go-to-market strategies. We also visited the headquarters of some technology giants like Cisco, Google, Apple and Intel. It was an eye-opening experience; we could apply the skills we learnt to the running of a business.

COMP equipped me with significant skills for starting my business. During classes, I obtained technical computer knowledge and practical programming skills that helped me build a foundation for web development. COMP also provided me with many valuable opportunities to join different kinds of out-of-class activities. If I were not a COMP student, I would not be able to take advantage of those learning opportunities and be who I am today.

Ricardo HUI - 2016 BSc Graduate
ENTRANCE REQUIREMENTS

We accept students from all backgrounds - arts, science, or business. In fact, many of our most outstanding students have come from non-science backgrounds. Our Broad Discipline of Computing has the same entrance requirements as other programmes in PolyU. They are:

**For Entry within HKDSE Qualifications**

Four core subjects and two elective subjects with:
- Level 3 - English Language, Chinese Language and two elective subjects (M1/ M2 are also considered as electives);
- AND
- Level 2 - Mathematics and Liberal Studies.

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

**Alternative Entry Route**

An appropriate Diploma passed with credit or an appropriate Higher Certificate from a recognised institution;
- OR
- An appropriate Associate Degree/ Higher Diploma from a recognised institution (suitable candidates will be considered for advanced standing entry to the senior year curriculum);
- OR
- 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) AND satisfy the English Language Requirement.

APPLICATION

1. Via JUPAS (Joint University Programmes Admission System): www.jupas.edu.hk
2. Via Non-JUPAS: www.polyu.edu.hk/study

* Contents of this publication are subject to review and change.