



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

Department of Computing
電子計算學系

Bachelor of Science (Honours)
Scheme in
COMPUTING
(2020/21)

SHAPING AND TRANSFORMING THE FUTURE WITH COMPUTING

JUPAS CODE: JS3868

BSc (Hons) in
**FINANCIAL TECHNOLOGY &
ARTIFICIAL INTELLIGENCE**



Bachelor of Science (Hons) in FINANCIAL TECHNOLOGY & ARTIFICIAL INTELLIGENCE

Student Development

Outbound Exchange



Curriculum

Year of Study	Core Subjects Highlight
Year 1	<ul style="list-style-type: none"> Computational Thinking and Problem Solving Programming Fundamentals Introduction to Computer Systems Introduction to Data Analytics
Year 2	<ul style="list-style-type: none"> Data Structures Object-oriented Programming Database Systems Computer Networking Financial Accounting Business Finance
Year 3	<ul style="list-style-type: none"> Software Engineering Computer Systems Security
Year 4	<ul style="list-style-type: none"> E-Payment and Crypto Currency Artificial Intelligence Machine Learning Capstone Project Emerging Topics in FinTech

Computing Electives

- Social and Collaborative Computing
- IT Entrepreneurship
- E-Commerce Technology and Applications
- Information Systems Audit and Control
- Computational Finance
- Mobile Security: Principles and Practice
- Principles and Practice of Internet Security
- Mobile Computing
- Data Mining and Data Warehousing
- Big Data Analytics
- Service and Cloud Computing

Finance Electives

- Investments
- Risk Management
- Corporate Finance
- Wealth Management

Objectives

This programme emphasises on applying computing technologies with a focus on artificial intelligence to develop, manage and transform finance systems and solutions.

Features

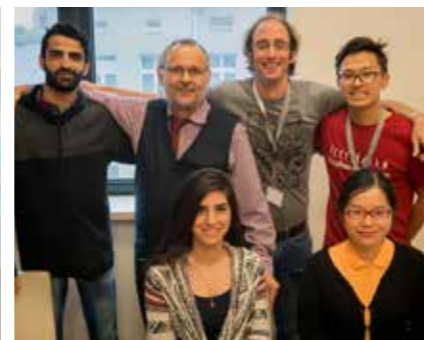
- Unique common first year with flexible programmes to choose
- Choice of minor in other departments or faculties
- 32-week internship option/ Work-Integrated Education (WIE)
- Overseas exchange and international learning opportunities
- Professional Training/ Certification Programmes
- Mentorship Programmes

Career Prospects & Further Studies

Our graduates started their career in a wide range of job positions, such as Finance/ AI Consultant, Financial Data Analyst, FinTech System Developer and FinTech Entrepreneur. Others pursue further studies either in our department or reputable universities overseas, e.g. ETH Zürich, Carnegie Mellon University, the University of Illinois at Urbana-Champaign, the University of Toronto, the University of Southern California, The University of Edinburgh, and Monash University.

Internship & Work-Integrated Education (WIE)

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 undertake international WIE in overseas countries such as the US, Canada, the Netherlands, France, Germany, Denmark, Switzerland, Spain, Japan and Singapore to broaden their cross-cultural understanding.



Undergraduate Summer Research Abroad Sponsorship Scheme

A signature student learning scheme, which aims to provide financial support to students to undertake research under the guidance of academics in overseas pre-eminent universities, including University College London (UCL) and Massachusetts Institute of Technology (MIT).



Mentorship Programmes

We have invited alumni, professional practitioners and business executives from Computing Alumni Association and the industry to join us as mentors, enabling our students to acquire the skills for career planning and personal development.



Extra-Curricular Activities



We encourage students to broaden their horizons by taking part in international and regional competitions as well as local and overseas Service-Learning projects. Other out-of-classroom activities such as workshops and seminars are also organised for students.



Training/ Certification Programme (TCP)

We collaborate with various organisations to integrate tertiary education with professional training/ certification. Students are provided with practical knowledge and skills, thus equipping themselves with extra-curricular guidance to strengthen their employability.

Entrance Requirements

We accept students from all backgrounds - arts, science, or business. Our Scheme in Computing 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 2 - Liberal Studies

Level 3 - Elective^A

Level 3 - Elective^A

^AM1/ 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 (Single or Combined Science), Business, Accounting and Financial Studies (BAFS), and Economics.

Apply via JUPAS (Joint University Programmes Admissions System):
www.jupas.edu.hk



Alternative Entry Route

a) An appropriate Diploma passed with credit or a Higher Certificate from a recognised institution;

OR

b) 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

c) Holder of other non-local qualifications (please refer to PolyU's Guidelines on Non-local Qualifications for more details about our general requirements) AND satisfy the English Language Requirement.

Apply via Non-JUPAS:
www.polyu.edu.hk/study