BACHELOR OF SCIENCE IN
COMPUTER SCIENCE
理學士 (電腦科學)
JUPAS Catalogue No.: JS1204
AIMS OF THE PROGRAMME

The programme aims to provide the best possible undergraduate education with a well-balanced emphasis on computer science theories, practical hands-on development skills, as well as software engineering know-how that are necessary for successful careers as professional software developers, system analysts, system architects and technology officers. Our study streams allow students to further specialize in different areas of expertise. In addition, the programme has a mandatory placement component that allows students to gain real world experience, which will provide a significant edge when students look for employment after graduation.

PROGRAMME STRUCTURE

The curriculum includes highly focused core courses and a wide range of electives. Besides, study streams are provided to allow students to study in depth in a selected area, which will enhance their competitiveness in developing their careers.

STUDY STREAMS

- COMPUTER PROGRAMMING
- DATABASE SYSTEMS
- OPERATING SYSTEMS
- SOFTWARE DESIGN
- IT PROFESSIONAL PLACEMENT
- FINAL YEAR PROJECT

CORE SUBJECTS

- DATA SCIENCE
- ARTIFICIAL INTELLIGENCE
- INFORMATION SECURITY
- MULTIMEDIA COMPUTING
- SOFTWARE ENGINEERING
- PROJECT MANAGEMENT

SPECIAL FEATURES

After completing two years of study, students will join the IT Professional Placement (ITPP) to work in companies joining our placement programme for nine months in related fields to gain real work experience. Below is a partial list of companies offering placement to our students in recent years:

- CLP Power
- Deloitte
- East Asia Bank
- HK Electric
- Hong Kong Jockey Club
- Hospital Authority
- HSBC
- KPMG
- OOCL
- PricewaterhouseCoopers
- Siemens
- Swire Resources

PROFESSIONAL RECOGNITION

The programme is the first computer science programme in Hong Kong accredited by the Hong Kong Institution of Engineers (HKIE).

INTERNATIONAL EXPOSURE & CO-CURRICULAR LEARNING

Students are encouraged to participate in a wide range of overseas learning and co-curricular activities to broaden their international outlook and multicultural perspectives in an increasingly globalized world.

STUDENT EXCHANGE PROGRAMMES

To study abroad for a semester at partner institutions in Asia, Europe and North America.

BIG DATA ANALYTICS

A four-week summer programme offered by the University of Missouri to expose students to the latest development in Big Data Analytics.

OVERSEAS LEARNING PROGRAMMES

To subsidize students to participate in learning programmes offered by prestigious overseas universities.

STUDENT ACHIEVEMENTS

- Russell C. Milne Award 2022
- Second Place Award & Merit Award
- HSBC Overseas Scholarships 2021/22
- Innovation and Technology Scholarship 2021
- 4th IJPC Asia Kuning Regional Contest 2022
- Silver Medal

MINIMUM LEVEL REQUIRED

| ENGLISH LANGUAGE | Level 3 |
| CHINESE LANGUAGE | Level 3 |
| MATHEMATICS | Level 3 |
| LIBERAL STUDIES | Level 2 |

| ELECTIVE 1
| Level 3 in ONE elective subject from:
| - Biology
| - Chemistry
| - Combined Science
| - Information and Communication Technology
| - Integrated Science
| - M1 / M2
| - Physics

| ELECTIVE 2
| Level 3 in ANY elective subjects

* Best five subjects will be taken into account, including English Language, Mathematics and a specified elective.

CAREER PROSPECTS AND FURTHER STUDIES

The graduates of the programme, with a year of placement experience, have achieved very high employment rates in recent Graduate Employment Surveys. Students who pursued further studies received offers from prestigious universities including Massachusetts Institute of Technology, Carnegie Mellon University, Columbia University, ETH Zürich, Johns Hopkins University, Nanyang Technological University, University of California, San Diego, University of Illinois at Urbana-Champaign and University of Waterloo.
BACHELOR OF SCIENCE IN
Computer Science

BACHELOR OF SCIENCE IN
Computational Finance and Financial Technology

JUPAS CATALOGUE NO. JS1221
Leveraging Technology in Finance to Transform and Go Beyond

INTERDISCIPLINARY
The programme is jointly offered by the Department of Computer Science and the College of Business.

APPLICABLE KNOWLEDGE
Train students with a distinctive blend of knowledge from AI, big data analytics, and software engineering to derivatives pricing, financial econometrics, and portfolio management.

DURATION
Obtain two degrees in five years.

MODE OF FUNDING
Year 1-4: Government-funded
Year 5: Self-financed

MINIMUM ENTRANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Level</th>
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</thead>
<tbody>
<tr>
<td>English Language</td>
<td>Level 3</td>
</tr>
<tr>
<td>Chinese Language</td>
<td>Level 3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Level 4</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>Level 2</td>
</tr>
<tr>
<td>Elective 1^</td>
<td>Level 3</td>
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<tr>
<td></td>
<td>in one elective subject from:</td>
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<tr>
<td></td>
<td>Biology / Chemistry / Combined Science / M1 / M2</td>
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<tr>
<td></td>
<td>Information and Communication Technology / Physics</td>
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<tr>
<td>Elective 2^</td>
<td>Level 3</td>
</tr>
<tr>
<td></td>
<td>in any elective subjects</td>
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</tbody>
</table>

^Notes
1. Unspecified elective subjects may include "other languages" at grade E or above.
2. If students take both M1 and M2, they are counted as one subject only.
3. Applied Learning subjects are not counted as elective subjects.

Department of Computer Science
City University of Hong Kong

+852 3442 8580
csadm@cityu.edu.hk
https://www.cs.cityu.edu.hk

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