BACHELOR OF SCIENCE
IN COMPUTER SCIENCE

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, systems 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.

CORE SUBJECTS

- Computer Programming
- Database Systems
- Operating Systems
- Software Design
- IT Professional Placement
- Final Year Project

STUDY STREAMS

- Data Science
- Artificial Intelligence
- Information Security
- Multimedia Computing
- Software Engineering and 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:

- Hong Kong Exchanges and Clearing
- Hong Kong Jockey Club
- Hospital Authority
- HSBC
- IBM
- Jardine Matheson
- Office of the Government Chief Information Officer
- Siemens
- SmarTone Telecommunications
- Swire Resources
- The Hongkong Electric

STUDENT EXCHANGE PROGRAMMES

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

BIG DATA ANALYTICS SUMMER EXPERIENCE IN USA

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 AWARDS

1. TartanHacks 2020 organised by ScottyLabs at Carnegie Mellon University
   - Emirates Grand Prize Winner
2. HKCS Outstanding ICT Women Awards 2020
   - Outstanding ICT Rising Star Award
3. iDASH Privacy & Security Workshop 2019 - Secure Genome Analysis Competition
   - First Place Award in "Track 3: Privacy-preserving Machine Learning as a Service on SGX"
4. 44th International Collegiate Programming Contest (ICPC) Asia Hong Kong Regional Contest 2019
   - Bronze Medal
5. HKEIA Innovation & Technology Project Competition Award 2019
   - Silver Prize

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

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
  - M1/M2
  - Physics

ELECTIVE 2

- Level 3 in ANY elective subjects

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 Yale University, Brown University, Columbia University, Carnegie Mellon University, Cornell University, Boston University and University of Toronto.

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.

ENTRANCE REQUIREMENTS

For admission to JS1204 BSc Computer Science, JUPAS HKDSE applicants must meet the following entrance requirements and levels.