MA S T E R  O F  S C I E N C E  I N  C O M P U T E R  S C I E N C E

Department of Computer Science

PROGRAMME CODE: P53

Early application is strongly encouraged. Applications normally start in mid-November and are processed on a rolling basis. Review of applications will start before the deadline and finish as soon as all places are filled.

For application deadline, tuition fees and other information, refer to the following Website.
http://www.sgs.cityu.edu.hk/programme/P53
MASTER OF SCIENCE IN COMPUTER SCIENCE

PROGRAMME AIMS

The programme aims to enable computer professionals to effectively and systematically strengthen and upgrade their technical capabilities in meeting increasing demands in computer software systems and services development.

The programme also aims to broaden the students' knowledge and deepen their understanding of key issues of specific application domains and areas in computer science, including data science, e-Commerce, information security, mobile, multimedia, and other related contemporary technologies.

The programme also prepares graduates to take up advanced innovative development work in the industry as well as to pursue higher research degree qualifications.

Upon completion of the programme, students should be able to apply the acquired theories and techniques to various technical aspects of computer systems and services development. The programme provides great flexibility through extensive choices of electives to respond to rapidly changing industry needs as well as students' interests.

ENTRANCE REQUIREMENTS

To be eligible for admission, you must have:

- A recognized bachelor’s degree in a computing discipline such as Computer Studies, Information Technology, Computer Engineering, Information Systems or
- A recognized bachelor’s degree in a related discipline such as Electronic Engineering, Applied Mathematics, Manufacturing Engineering, Quantitative Analysis together with applicable working experience in information technology.

 Applicants whose entrance qualification is obtained from an institution where the medium of instruction is not English should also fulfill at least one of the following minimum English proficiency requirements:

- TOEFL: A score of 550 (paper-based test), or 213 (computer-based test), or 79 (Internet-based test); OR
- IELTS: An overall band 6.5 in International English Language Testing System; OR
- CET6: A score of 450 in the new College English Test of Chinese mainland, or a pass in the old CET-6 test; OR
- Other equivalent qualifications

For more details, please refer to http://www.cs.cityu.hk/academic/mscs

CURRICULUM

To be awarded the Master of Science in Computer Science degree, a student must acquire a minimum of 30 credit units, composed of:

- 9 credit units from required courses
- 21 credit units from elective courses*

* at least 3 credit units from those in Group I

Up to 9 credit units can be transferred based on the student's previous study.

The list of elective courses is divided into two groups:
Group I and Group II.

Each course is worth 3 credit units except CS5520 Project which is worth 6 credit units.

The courses have been included in the list of reimbursable courses for Continuing Education Fund purposes.

Note: Courses offered in each semester are subject to actual student enrolment, staff availability and other considerations.

Through suitable choices of elective courses, students may concentrate on a study stream based on their interests:

Data Science Stream or Information Security Stream

Alternatively, students may also freely choose any elective courses without concentration on any stream.

Postgraduate Diploma in Computer Science

The Postgraduate Diploma in Computer Science (PGDCS) is an intermediate award which a student may obtain after the completion of 24 credit units (including all required courses and at least 3 credit units of elective courses in Group I) with satisfactory results if the student decides not to continue with the Master of Science in Computer Science Programme.

Student Loan

Successful local applicants are eligible to apply for the Government’s Non-means-tested Loan Scheme. Application forms are obtainable from each District Office and the Student Finance Office of the Hong Kong Government.

Enquiries: 2150 6223
Website: http://www.wfsfaa.gov.hk/sfo

Continuing Education Fund

Local students (Hong Kong adult residents) may apply for Continuing Education Fund (CEF) for courses that are approved.

Eligible applicants will be reimbursed 80% of the course fee, subject to a maximum sum of HK$310,000, on successful completion of the course.

Enquiries: 3142 2777
Website: http://www.wfsfaa.gov.hk/cef

Data Science Stream

Stream Core (choose all courses)

- Big Data Algorithms and Techniques
- Data Warehousing and Data Mining

Stream Elective (choose at least one)

- Algorithms & Techniques for Web Searching
- Cloud Computing: Theory and Practice
- Guided Study*
- Machine Learning

* Guided Study is both a Data Science Stream Elective and an Information Security Stream Elective

Information Security Stream

Stream Core (choose all courses)

- Information Security for eCommerce
- Information Security Technology Management

Stream Elective (choose at least one)

- Cryptography: Theory and Practice
- Guided Study*
- Privacy-enhancing Technologies
- Topics on Information Security

* Guided Study is both a Data Science Stream Elective and an Information Security Stream Elective