



香港城市大學
City University of Hong Kong

專業 創新 胸懷全球
Professional · Creative
For The World

MASTER OF SCIENCE IN COMPUTER SCIENCE

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>

Department of Computer Science

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MASTER OF SCIENCE IN COMPUTER SCIENCE (P53)

DEPARTMENT OF COMPUTER SCIENCE | CITY UNIVERSITY OF HONG KONG

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 broadens the students' knowledge and deepen their understanding of key issues of specific application domains and areas in computer science. It also prepares graduates to take up advanced innovative development work in the industry or to pursue higher research degree qualifications.

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.

NORMAL STUDY PERIOD

1 year for full-time / **2** years for part-time

MAXIMUM STUDY PERIOD

2.5 years for full-time / **5** years for part-time

Students may freely choose elective courses without concentration, or choose elective courses to concentrate on a study stream:

DATA SCIENCE STREAM	INFORMATION SECURITY STREAM
Stream Core (choose all two courses)	
<ul style="list-style-type: none">· Big Data Algorithms and Techniques· Data Warehousing and Data Mining	<ul style="list-style-type: none">· Information Security for eCommerce· Information Security Technology Management
Stream Elective (choose at least one)	
<ul style="list-style-type: none">· Algorithms & Techniques for Web Searching· Cloud Computing: Theory and Practice· Guided Study †· Machine Learning	<ul style="list-style-type: none">· 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

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

Required Courses (9 credit units)	
Computer Networks and Internets · Software Engineering · Data Engineering	
Elective Courses (21 credit units)	
Group I (at least 3 credit units)	Group II
Algorithms & Techniques for Web Searching	Big Data Algorithms and Techniques
Computer Games Design	Cloud Computing: Theory and Practice
Guided Study	Computer Graphics
Machine Learning	Cryptography: Theory and Practice
Mobile Computing	Data Warehousing and Data Mining
Privacy-enhancing Technologies	Distributed Systems
Project (6 credit units)	High Speed Multimedia Networks
Topics in Machine Learning	Information Security for eCommerce
Topics on Information Security	Information Security Technology Management
Vision and Language	Intelligent Systems
	Introduction to eCommerce
	Multimedia Technologies and Applications
	Practical Optimization Algorithms and Techniques
	Software Quality Engineering
	Virtual Reality and Game-Engine Technologies
	Vision and Image

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

Reimbursable courses for Continuing Education Fund purposes. Eligible applicants (Hong Kong adult residents) will be reimbursed 80% of the course fee, subject to a maximum sum of HK\$10,000, on successful completion of the course. Enquiries: 3142 2777 Website: <http://www.wfsfaa.gov.hk/cef>

POSTGRADUATE DIPLOMA IN COMPUTER SCIENCE

The Postgraduate Diploma in Computer Science 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>

ENTRANCE REQUIREMENTS

To be eligible for admission, you must have:



A recognised bachelor's degree in a computing discipline such as

- Computer Studies
- Information Technology
- Computer Engineering
- Information Systems

OR



A recognised 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.edu.hk/academic/msc>