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MSc Computer Science
PGC Information Security
Department of Computer Science

CITY UNIVERSITY OF HONG KONG

Department of Computer Science

- ✓ BSc in Computer Science (since 1987)
- ✓ MSc in Computer Science (since 1991)
- ✓ MSc in Electronic Commerce (since 2000)
- ✓ PGC in Information Security (2007)
- ✓ by Research: MPhil and PhD (since 1990)
- ✓ 40 academic staff
- ✓ over 70 research staff
- ✓ over 40 MPhil and PhD students
- ✓ 5 Research Labs and Centres
- ✓ Prominent visiting professors (incl. 2 Turing Award winners)

MSC COMPUTER SCIENCE

Objectives

- ✓ Upgrade IT professionals
- ✓ Build technical competence
- ✓ Reinforce technology foundations
- ✓ Develop technical leadership
- ✓ Prepare for further advanced studies

MSC COMPUTER SCIENCE

Curriculum

- Accumulate 30 credit units to graduate
- 1 year (full time) or 2+ years (part time)
- Flexibility in choosing courses
 - 9 credit units of required courses
 - 6-credit Project optional



MSC COMPUTER SCIENCE

- Flexibility in choosing electives in various areas
 - Computer Networks and Distributed Systems
 - Network and Information Security
 - Internet and E-commerce Technology
 - Data and Knowledge Engineering
 - Software Engineering
 - Multimedia
 - Mobile Computing

MSC COMPUTER SCIENCE - COURSES

- Required Courses (total: 9 credits)
 - CS5222 Computer Networks and Internets OR CS6223 Distributed Systems
 - CS5351 Software Engineering OR CS5281 Internet Application Development
 - CS5285 Information Security for eCommerce
- Elective Courses (total: 21 credits)
 - Choose 7 courses
 - Project is a 6-credit elective, entirely optional

ELECTIVE COURSES (PARTIAL LIST)

	Tentative schedule
CS5185 Multimedia Technologies and Applications	Sem A
CS5285 Information Security for eCommerce	Sem B
CS5286 Algorithms and Techniques for Web Searching	Sem A
CS5281 Internet Applications Development	Sem B, S
CS5289 Pervasive Computing System	Sem B
CS5348 Software Quality Engineering	Sem B
CS5290 Digital Rights Management	Sem B
CS5483 Data Warehousing and Data Mining	Sem B
CS5285 Information Security for eCommerce	Sem A
CS5288 Cryptography: Theory and Practice	Sem B
CS5294 Information Security Technology Management	Sem A
CS6282 Internet and Distributed Systems Programming	Sem B
CS6472 Advanced Multimedia Database	Sem A
CS6534 Guided Study	Sem A, B, S
EC5001 Introduction to eCommerce	Sem A

(Elective offerings are subject to students' interest and availability of lecturing staff)

ACADEMIC AWARDS

- MSc in Computer Science
 - Complete 30 credits
 - Classification: distinction, credit, pass
 - Minimum GPA 2.0 to graduate
- PGD in Computer Science
 - Complete 24 credits
 - Option only if not proceeding to MScCS
- PGC in Information Security
 - Complete 12 credits (and all PGCINSE requirements)
 - Option only if not proceeding to MScCS

COURSE REGISTRATION

- Required courses
 - Pre-registered for you
- Prerequisites
 - Can be waived if student has sufficient background
- Elective courses
 - Student indicates their preferences
 - Departments decide on courses to be offered
 - Student registers using add/drop procedure

CREDIT TRANSFER (MSCS)

- Applies to both required courses & electives
- Approval based on
 - Relevance of previous course
 - Equivalent level
 - Significant syllabus overlap (> 75%)
 - Good grade
 - Minimum B+, typically A- or above
 - Reviewed by area expert through a formal process

SCHOLARSHIPS (MSCS)

- The Department of Computer Science Outstanding Student Scholarship
 - Top MScCS non-first year student
 - Good academic performance in the previous academic year
 - Good personal qualities
 - Scholarship amount \$10,000
- The Department of Computer Science Achievement Scholarships
 - Top 10% of MScCS first year students (~4 -5)
 - Completed twelve credit units or more, and achieved an average GPA of 3.0 or above with no failure
 - Scholarship amount \$10,000 each

HINTS

- Follow progress of lectures closely
- Balance study load (full time vs part time study)
- Check email (City U account) for departmental and lecturer announcements periodically
- Apply early for CEF support and credit transfer
- New immigration rules for non-local students
- In case of difficulties
 - Consult tutor/lecturer and/or programme leader
 - Option of leave of absence (suspension of study)
 - Maximum 4 semesters (cumulative)

COMMON MISTAKES

- Missing Add / Drop deadline
- Overload
- Does not meet credit loading requirement for full time study
- Extended travel: contact lecturer to make arrangements
- Starting too LATE for Guided study and project courses
- Assume similar electives during summer term

KEY CONTACTS

- Programme Team
 - Edward Chan csedchan@cityu.edu.hk Programme Leader and MSCS Project coordinator
 - Sam Kwong cssamk@cityu.edu.hk Admission Officer and Yr 1 tutor
 - Coco Wong 27888635 cocowong@cityu.edu.hk Admin Officer
- MScCS Page: <http://www.cs.cityu.edu.hk/academic/mscs>

PGC INFORMATION SECURITY

Objectives

- ✓ Foundation in information security
- ✓ Both theory and practice
- ✓ Management and technical aspects

PGC INFORMATION SECURITY

Curriculum

- Accumulate 12 credit units to graduate
- 1 year (part time)
- Flexibility in choosing courses
 - 3 credit units of required courses
 - Choose three more courses

PGC INFORMATION SECURITY

- Required Courses (total: 3 credits)
 - CS 5285 Information Security for eCommerce OR
 - CS 6287 Network and Information Security
- Elective Courses (total: 9 credits)
 - CS 5222 Computer Networks and Internets
 - CS 5255 Information Security Workshop
 - CS 5288 Cryptography: Theory and Practice
 - CS 5290 Digital Rights Management
 - CS 5294 Information Security Technology Management
 - CS 6534 Guided Study

PGC INFORMATION SECURITY

- Needs GPA 2.0 or above to graduate
- Credits earned in PGC Information Security fully recognized in MSc Computer Science
- Typically most of the electives will be offered each year

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Q & A