Announcement of enrolment for courses taught in Semester 1, 2024-25
(For MSc(CompSc) students admitted in 2024)

1. Important items to note:

a. Degree Regulations & Syllabuses

- The MSc(CompSc) online enrolment system (https://msccs.cs.hku.hk/) contains the degree regulations and syllabuses, including the course titles and brief descriptions of all courses, of the MSc(CompSc) programme. We recommend you to go through the degree regulations and syllabuses in detail.

- To know more about the courses, we recommend you to browse the Courses section for more information about the courses, including topics, teaching format and assessment methods, etc. Kindly note that these are the tentative teaching plans and may subject to adjustments by the instructors.

- The following major points are highlighted.

1. Length of Study
   - For the full-time mode, the normative study period is 1 year and *maximum registration period is 2 years.
   - For the part-time mode of study, the normative study period is 2 years and *maximum registration period is 3 years.
   Students who have to extend their study period beyond the normative study period are required to pay an additional fee.

2. Mode of Enrolment
   - To complete the programme and be granted the degree, a candidate are required to complete 72 credits to graduate by studying in one of the following enrolment modes:

     10 Courses^ + Project (equivalent to 12 credits)
       OR
     8 Courses^ + Dissertation (equivalent to 24 credits)

     ^ *Each course normally carries 6 credits.*

3. Minimum study progress requirement
   - To study in the programme and proceed to the next year of study, a candidate must pass at least 12 credits, which is equivalent to two 6-credit courses, in each academic year.

4. CGPA requirement
   - Students are required to achieve a cumulative grade point average (CGPA) of 1.0 or higher for two consecutive semesters with course enrolment.

b. Programme structure

i. Streams of Study

The MSc(CompSc) curriculum offers four streams, a general one and three specialized ones, as follows:

- Cyber security stream
- Financial computing stream
- General stream
- Multimedia computing stream

Cyber Security / Financial Computing / Multimedia Computing streams
- Students of Cyber Security / Financial Computing / Multimedia Computing streams are required to complete a minimum of 24 credits of courses, which is equivalent to four 6-credit courses, in the corresponding Subject Group, undertake a dissertation or a project in the area of the corresponding stream, and take any courses in the curriculum to obtain the remaining credits. Students may select more than 4 courses in the corresponding subject group.

General stream
- Students opted for the General stream can choose any discipline courses from any subject groups in the curriculum and undertake a dissertation or a project in any area in computer science.

ii. Discipline courses

- All courses with prefix COMP and some selected courses with prefix DASC and FITE courses listed in the MSc(CompSc) programme syllabus are considered as your Discipline courses.

- The courses are classified into Subject Groups: Cyber Security, Financial Computing, Multimedia Computing and others. Please refer to the syllabus and also the table of Courses Offered in section 2.

iii. Other non-discipline elective courses

- MSc(CompSc) students may in exceptional circumstances be permitted to select at most two non-discipline courses (at most 12 credits in total), which are taught-postgraduate level courses offered by the Departments of the Faculty of Engineering, as electives, subject to the approval of the MSc(CompSc) Programme Director and the Head or Course Co-ordinator of the department concerned.

2. Courses offered in 2024-25 academic year:

Subject group	Course code	Course title	Semester
FC	COMP7103	Data mining	1
	COMP7104	Advanced database systems	2*
	COMP7106	Big data management	2*
	COMP7107	Management of complex data types	1
	COMP7308	Introduction to unmanned systems	1
	COMP7309	Quantum computing and artificial intelligence	1
	COMP7310	Artificial intelligence of things	2*
	COMP7311	Legal issues in artificial intelligence and data science	S*
	COMP7404	Computational intelligence and machine learning	1, 2* & S*
FC	COMP7408	Distributed ledger and blockchain technology	2*
FC	COMP7409	Machine learning in trading and finance	1 & 2*
FC	COMP7412	Banking in Web 3.0 – Metaverse, DeFi, NFTs and beyond	1
FC	COMP7415	Mastering the markets: Financial analytics and algorithmic	2*
MC	COMP7502	Image processing and computer vision	S*
MC	COMP7503	Multimedia technologies	1
MC	COMP7506	Smart phone apps development	2*
MC	COMP7507	Visualization and visual analytics	1 & S*
MC	COMP7508	Data-driven computer animation	1
	COMP7607	Natural language processing	1
FC	COMP7802	Introduction to financial computing	1
CS	COMP7901	Legal protection of digital property	2*
CS	COMP7903	Digital investigation and forensics	2*
CS	COMP7904	Information security: attacks and defense	2*
CS	COMP7905	Reverse engineering and malware analysis	1
CS / FC	COMP7906	Introduction to cyber security	1
	DASC7606	Deep learning	1
FC	FITE7405	Techniques in computational finance	2*
FC	FITE7407	Securities transaction banking	1
CS / FC	FITE7410	Financial fraud analytics	1
	FITE7411	RegTech in Finance	2*
FC	FITE7413	Smart banking and innovative finance	2*
FC	FITE7414	Generative AI in financial services	2*

* Tentative
Please note that some courses may not be offered every year.

Subject Groups:
  CS - Cyber Security
  FC - Financial Computing
  MC - Multimedia computing

3. Enrolment for Semester 1

The following MSc(CompSc) classes are offered in Semester 1:

Course code	Course title	Professor	Schedule
COMP7103A	Data mining	Ben Kao	Daytime
COMP7103B	Data mining	Mauro Sozio	Evening + Weekend
COMP7103C	Data mining	Chao Huang	Daytime
COMP7107	Management of complex data types	Nikos Mamoulis	Daytime + Weekend
COMP7308	Introduction to unmanned systems	J. Pan	Evening
COMP7309	Quantum computing and artificial intelligence	Daniel Ebler	Weekend
COMP7404A	Computational intelligence and machine learning	Dirk Schnieders	Evening
COMP7409A	Machine learning in trading and finance	H.F. Ting	Evening
COMP7412	Banking in Web 3.0 – Metaverse, DeFi, NFT's and beyond	Juergen Rahmel	Evening
COMP7503A	Multimedia technologies	Bill Luo	Evening
COMP7503B	Multimedia technologies	Bill Luo	Evening
COMP7507A	Visualization and visual analytics	Loretta Choi	Evening
COMP7508	Data-driven computer animation	Taku Komura	Evening
COMP7607	Natural language processing	Lingpeng Kong	Evening
COMP7802A	Introduction to financial computing	C.D. Shum	Daytime
COMP7802B	Introduction to financial computing	Peter Ng	Weekend
COMP7802C	Introduction to financial computing	C.D. Shum	Evening
COMP7905	Reverse engineering and malware analysis	Frankie Li	Evening
COMP7906A	Introduction to cyber security	K.P. Chow	Daytime
COMP7906B	Introduction to cyber security	Russell Yiu	Evening
DASC7606B	Deeping learning	Francis Chin & Bethany Chan	Evening
DASC7606C	Deeping learning	Mauro Sozio	Daytime + Weekend
FITE7407	Securities transaction banking	Juergen Rahmel	Weekend
FITE7410A	Financial fraud analytics	Vivien Chan & Annie Chan	Evening
FITE7410B	Financial fraud analytics	Vivien Chan & Annie Chan	Evening
FITE7410C	Financial fraud analytics	Vivien Chan & Annie Chan	Daytime

Before you decide what courses you are going to take, we would like to suggest the following:

a. Read the up-to-date timetable for Semester 1 courses as well as the course webpages for syllabuses, pre-requisites, compatibility and other class information. The lectures and lab attendance might be around 30 hours, but you will realistically need time to prepare, review and work on assignments. As a rule of thumb, you will need a total of 120-150 hours for deep and fruitful learning.

b. The examination period is 7-23 December 2024. The examination schedule with the exact examination date of each course uses to be released only after the add/drop period by the Examinations Office in around late Oct to early Nov. Please note that all students are obliged to follow the schedule. You should not enrol in a course if you are not certain that you will be available to attend the quizzes and examination in Hong Kong, as we do not have supplementary examinations. Absent from examination may result in failure in the course.

c. Students taking technical courses must make sure that they have the prior knowledge of the course (if any). The instructors are not going to lower the technical entry requirement if you are not up to it. Email instructors directly if you are not sure about the course technical knowledge requirements, if listed.

d. Students are discouraged from selecting too many courses, even if they may plan to drop some of them afterwards. If a full-time student requests to take more than 5 courses, or a part-time student requests more than 3 courses, their priority to enter a class will be LOWERED. If the class quota exceeds, they will not be allocated the place.

e. Part-time students are reminded that some courses are scheduled in daytime.

f. Students are not allowed to select/enrol in more than the maximum number of courses they can take, i.e. TEN 6-credit courses plus a project or EIGHT 6-credit courses plus a dissertation, unless prior approval has been granted. ALL enrolment requests will be REJECTED if students select extra courses.

g. Students are also reminded of the stream requirements. ALL enrolment requests will be REJECTED if their selections have violated the rules.

h. A student can only take at most 2 non-MSc(CompSc) discipline courses (in total of 12 credits). If extra non-MSc(CompSc) discipline courses are selected, ALL of them will be REJECTED.

i. For the courses which have 2 (or 3) classes, please choose one class only. Two (or three) quotas are used if both classes are selected. If one class is full, students will be randomly moved to another class.

j. Students are not allowed to enroll in the courses that have time conflict. ALL enrolment requests will be REJECTED if there is any timetable clash for the proposed course of study.

k. All classes have quotas, which are shown on the course summary webpage on the MSc(CompSc) online enrolment system. When the applications for a course exceed quota, the warning will be shown. However, you can still submit the request via the system. If such case happens, some requests may be rejected finally if no alternative could be made.

l. Courses may not be offered if the enrolment number is low. If such case happens, enrolled students will automatically be dropped out.

4. Dates for enrolment

a. Enrolment via the on-line enrolment system for Semester 1 courses starts now and closes on **23 August 2024 <u>noon</u>**. Late enrolment will not be entertained except in special circumstances.

b. You can check your enrolment result on the MSc(CompSc) online enrolment system on **31 August 2024**.

c. We strongly recommend you to submit your enrolment request before the deadline. This is because all courses have class quotas. We cannot give places to late enrolees.

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5. Project / Dissertation

a. Project / Dissertations will start in Semester 2, and enrolment will take place in January 2025. There will be announcements in due course.

b. Students are required to complete the following Language Workshops offered by Centre for Applied English Studies (CAES):   *(Full-attendance is required)*

Workshop	Expected enrolment semester for Full-time students	Expected enrolment semester for Part-time students
Dissertation writing	1st & 2nd Sem, 2024-25	2nd Sem, 2024-25 1st & 2nd Sem, 2025-26
Presentation skills	1st & 2nd Sem, 2024-25 (for students taking Project) 2nd Sem, 2024-25 & 1st Sem, 2025-26 (for students taking Dissertation)	2nd Sem, 2024-25 1st & 2nd Sem, 2025-26

c. To enhance the technical knowledge and skills, students are also required to complete the technical workshops (e.g. Python, Research methodology).

d. Timetable of the workshops offered in Semester 1 will be available on the MSc(CompSc) online enrolment system and on Moodle soon. Student should avoid enrolling in courses which have time-conflict with the workshops they will choose. For enrolment for the workshops, please refer to the Moodle page at https://moodle.hku.hk/course/view.php?id=121735. Separate email announcement will also be sent to all students.

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6. Cross department / curriculum enrolment

a. Our students may in exceptional circumstances be permitted to select at most two non-discipline courses (at most 12 credits in total), which are taught-postgraduate level courses offered by the Departments of the Faculty of Engineering, as electives, subject to the approval of the MSc(CompSc) Programme Director and the Head or Course Co-ordinator of the department concerned.

b. The links to the webpages containing the timetable and course information for the MSc(ECom&IComp) and MSc(Eng) programmes are available on the online enrolment system.

c. But approval to enrol is not automatic. The directors of the home programme and the destined programme will have to agree first, and it also depends on the quota restriction of the destined courses.

d. The enrolment for Semester 1 courses starts now and closes on 23 August 2024 noon.

e. You can check your enrolment result on the system on 31 August 2024.

f. These programmes may have different add-drop deadlines.

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7. Add / Drop courses

a. The add-drop procedure is to be used after students have been notified of the result of their enrolment applications, but then have a change of mind.

b. It is acceptable to add/drop within the add-drop period of each course (see below). This can be done through on-line enrolment system.

Add/drop period:
- MSc(CompSc) and MSc(Eng) courses not listed below: **2 September - 15 September 2024**
- COMP7103B, COMP7107, COMP7309, COMP7412, DASC7606C, FITE7407: from 2 September 2024 to the date of the second session
- MSc(ECom&IComp) courses: from 2 September 2024 to the date of the second session of that course

c. No late-drop is allowed normally. Application on dropping of a course after the second class will not be considered except for extremely important and unavoidable circumstances, for example, a severe health problem. Such application is subject to approval by the Programme Director, Department and Faculty concerned. Reasons such as busy work, unable to cope with the assignments, getting a cold, etc. would not be accepted and therefore students are advised to read the course summary and think carefully before enrolling in a course.

d. Please check the online enrolment system regularly for revisions to the timetable and check your enrolment record before you make any request to add or drop courses.

e. Results will normally be released within three working days after we receive your request. Please check your enrolment record and read the online note by clicking the ! icon or the letter icon under the Message column for any remarks (if any).

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8. Continuing Education Fund

Some courses have been included in the list of reimbursable courses for Continuing Education Fund (CEF), which was set up by the HKSAR Government. For students who apply for CEF for the first time are only required to complete Application Form [SFO 313 (2022)], which is a combined application form for both account opening and fee reimbursement, on successful completion of a reimbursable course (i.e. passing the course and attending more than 70% of the classes on campus). For details, please refer to CEF website: https://www.wfsfaa.gov.hk/en/ce/cef/overview.php

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9. Enrolment for Semester 2 and 3 courses

Enrolment application for Semester 2 and 3 courses will begin about 1 month before each semester starts. Please watch out for latest enrolment announcement, confirmed syllabuses and timetable information on the online enrolment system.

10. Enquiries

Should you have any enquiries on enrolment, please do not hesitate to contact Miss Ellen Lam (wylam2@cs.hku.hk, 3917-1828).

MSc Programme Office
18 August 2024