FACULTY OF ENGINEERING

Computer Science and Engineering

Study Scheme

M.Phil. - Ph.D. Programme in Computer Science and Engineering (Full-time and/or Part-time)

Please read the Study Scheme in conjunction with the email on "Completing certain Improving Postgraduate Learning modules in the first year of study (for fulfilment of Ph.D. and Taught Doctoral candidacy requirements) with retroactive effect from 2022-23 intake" dated 27 October 2023: https://www.gs.cuhk.edu.hk/download/IPL.pdf.

I. Applicable to Full-time and/or Part-time students admitted in 2025-26 and thereafter

A. M.Phil. Student

1. Coursework Requirement

(a) Lecture courses:

Each student must complete a minimum of 12 units of courses, which should comprise postgraduate courses offered by the Division or other related courses approved by the Division.

(b) Thesis research / monitoring courses:

Each student must enroll in the respective "Thesis Research Course" during every term within his/her study period. The pertinent codes are as follows:

(i) For first-year students: CSCI8006

(ii) For second-year students: CSCI8012

(iii) For continuing students: CSCI8003

(c) Other courses

Each student must enroll in CSCI6500 "Seminar for M.Phil. Studies" during every term within his/her normative study period.

- (a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to Clause 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the General Regulations Governing Postgraduate Studies which can be accessed from the Graduate School Homepage: https://www.gs.cuhk.edu.hk.
- (b) The Division may require a student to complete additional courses if deemed necessary.

- (c) Students are required to achieve a minimum grade of "C-" in the courses taken during the study in order to fulfill the graduation units and requirements, unless special approval is granted by the Division.
- (d) Students are required to submit a research thesis and pass an oral examination for graduation.
- (e) Students are required to complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/prodev/ipl.html.
- (f) Students are required to complete and pass an IPL module on "Basics of Research Data Management" in their first year of study, with effect from the 2022-23 intake. This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf.
- (g) Students are required to submit a Data Management Plan (DMP) during the first year of study, with effect from the 2025-26 intake. The final DMP should have been shared to the CUHK community on DMPTool or the relevant platform that CUHK provides when submitting the final version of the thesis/portfolio to the Graduate School. Students are required to have published the data on the CUHK Research Data Repository or an open data repository with a valid Digital Object Identifier (DOI) or other forms of permanent identifier when submitting the final version of the thesis/portfolio. Upon thesis supervisor's endorsement, students can decide on how much data from the research project is to be published.
- (h) Students are required to complete an online Research Ethics Training (RET) module on "Publication Ethics" offered by the Office of Research and Knowledge Transfer Services (ORKTS) and obtain a valid Publication Ethics Certificate for graduation. Relevant information can be accessed from the RET website at https://www.research-ethics.cuhk.edu.hk/web/.

3. Remarks

To transition to the "Ph.D. in Computer Science and Engineering" programme, a student must

- (i) submit a transfer application during the first year of his/her M.Phil. study;
- (ii) have completed at least 4 postgraduate courses with a minimum grade of B-;
- (iii) have maintained a minimum GPA of 2.6 in each term prior to the transfer application.

B. Ph.D. Student (Pre-candidacy)

The "candidacy requirement" composes of four major parts, namely, coursework requirement, candidacy examination, thesis proposal and stipulated Improving Postgraduate Learning (IPL) module requirements. Students must complete and fulfill the first three parts within the "maximum period for fulfilling candidacy requirements" and complete the stipulated IPL module(s) in their first year of study. Details of the requirement are listed below:

1. Coursework Requirement

(a) Lecture courses:

Each student must complete a minimum of 18 units of courses subject to the following conditions.

- (i) Each course should be a postgraduate course offered by the Division or a related course approved by the Division.
- (ii) The student must complete a faculty core course.
- (iii) The student must attain a minimum grade of B in two courses, which must come from two distinct areas listed below:
 - Artificial Intelligence / Bioinformatics
 - Theoretical Computer Science
 - Data Engineering / Software Engineering / Programming Languages
 - Rich Media / Visual Computing / Human-Computer Interaction
 - Networking and Security
 - Digital Circuits & VLSI Design
 - Microprocessors & Systems

(b) Thesis research / monitoring courses:

Each student must enroll in the respective "Thesis Research Course" during every term within his/her pre-candidacy period. The pertinent course codes are as follows:

- (i) For full-time students: CSCI8006
- (ii) For part-time students: CSCI8003

(c) Other courses:

Each student must enroll in CSCI7600 "Seminar for Ph.D. Studies" during every term within his/her normative study period

2. Candidacy Examination

Each student is required to submit a written thesis proposal and pass an oral defence as a Candidacy Examination within the maximum period of his/her pre-candidacy stage for the advancement to his/her post-candidacy stage.

- (a) Students are required to achieve a minimum grade of "C-" in the courses taken during the study in order to fulfill the graduation units and requirements, unless special approval is granted by the Division.
- (b) Students are required to complete and pass an Improving Postgraduate Learning (IPL) module on "Basics of Research Data Management" in the first year of study, with effect from the 2022-23 intake. This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf.
- (c) All students are required to meet all the aforementioned requirements within the maximum time frame allowed for their pre-candidacy stage.

(d) The Division may require a student to complete additional courses if deemed necessary.

(e) Students are required to submit a Data Management Plan (DMP), with effect from the 2025-26

intake.

4. Remarks

A student may apply for exemption from up to two lecture courses. For each exemption, the student must provide an equivalent course that they have completed prior to entering the Ph.D

program. The exemption is subject to the following conditions.

(a) The equivalent course must originate from a research-oriented program and match the

technical depth of the course to be exempted.

(b) The equivalent course must have been taken when the student was enrolled in a master's

or a Ph.D. program.

(c) The student must have achieved a minimum grade of B in the equivalent course.

(d) The exemption does not apply to the courses specified in Requirement (iii) under "(a)

Lecture courses" of Section 1 (Coursework Requirements).

C. Ph.D. Student (Post-candidacy)

1. Coursework Requirement

(a) Lecture courses:

There is no additional course requirement for Ph.D. candidate.

(b) Thesis research / monitoring courses:

Each student must enroll in the respective "Thesis Research Course" during every term within

his/her post-candidacy period. The pertinent course codes are as follows.

(i) For full-time students: CSCI8012

(ii) For part-time students: CSCI8006

(iii) For continuing students: CSCI8003

(c) Other courses:

Each student must enroll in CSCI7600 "Seminar for Ph.D. Studies" during every term within

his/her normative study period.

2. Other Requirements

(a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details,

please refer to Clause 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the

General Regulations Governing Postgraduate Studies which can be accessed from the Graduate

School Homepage: https://www.gs.cuhk.edu.hk.

(b) The Division may require a student to complete additional courses if deemed necessary.

- (c) Students are required to achieve a minimum grade of "C-" in the courses taken during the study in order to fulfill the graduation units and requirements, unless special approval is granted by the Division.
- (d) Students are required to submit a research thesis and pass an oral examination for graduation.
 - In addition to completing the IPL modules stipulated for partial fulfillment of candidacy requirements, students are also required to complete the following IPL modules for graduation:
- (e) Complete an IPL module on "Observing Intellectual Property and Copyright Law during Research". This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/prodev/ipl.html.
- (f) Complete an online Research Ethics Training (RET) module on "Publication Ethics" offered by the Office of Research and Knowledge Transfer Services (ORKTS) and obtain a valid Publication Ethics Certificate for graduation. Relevant information can be accessed from the RET website at https://www.research-ethics.cuhk.edu.hk/web/.
- (g) The final DMP should have been shared to the CUHK community on DMPTool or the relevant platform that CUHK provides when submitting the final version of the thesis/portfolio to the Graduate School. Students are required to have published the data on the CUHK Research Data Repository or an open data repository with a valid Digital Object Identifier (DOI) or other forms of permanent identifier when submitting the final version of the thesis/portfolio. Upon thesis supervisor's endorsement, students can decide on how much data from the research project is to be published.

II. Applicable to Full-time and/or Part-time students admitted in 2024-25

A. M.Phil. Student

1. Coursework Requirement

(a) Lecture courses:

Each student must complete a minimum of 12 units of courses, which should comprise postgraduate courses offered by the Division or other related courses approved by the Division.

(b) Thesis research / monitoring courses:

Each student must enroll in the respective "Thesis Research Course" during every term within his/her study period. The pertinent codes are as follows:

(i) For first-year students: CSCI8006

(ii) For second-year students: CSCl8012

(iii) For continuing students: CSCI8003

(c) Other courses

Each student must enroll in CSCI6500 "Seminar for M.Phil. Studies" during every term within his/her normative study period.

2. Other Requirements

- (a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to Clause 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the General Regulations Governing Postgraduate Studies which can be accessed from the Graduate School Homepage: https://www.gs.cuhk.edu.hk.
- (b) The Division may require a student to complete additional courses if deemed necessary.
- (c) Students are required to achieve a minimum grade of "C-" in the courses taken during the study in order to fulfill the graduation units and requirements, unless special approval is granted by the Division
- (d) Students are required to submit a research thesis and pass an oral examination for graduation.
- (e) Students are required to complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/prodev/ipl.html.
- (f) Students are required to complete and pass an IPL module on "Basics of Research Data Management" in their first year of study for completion of the University-specified requirement, with effect from the 2022-23 intake. This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf.
- (g) Students are required to complete an online Research Ethics Training (RET) module on "Publication Ethics" offered by the Office of Research and Knowledge Transfer Services (ORKTS) and obtain a valid Publication Ethics Certificate for graduation. Relevant information can be accessed from the RET website at https://www.research-ethics.cuhk.edu.hk/web/.

3. Remarks

To transition to the "Ph.D. in Computer Science and Engineering" programme, a student must

- (i) submit a transfer application during the first year of his/her M.Phil. study;
- (ii) have completed at least 4 postgraduate courses with a minimum grade of B-;
- (iii) have maintained a minimum GPA of 2.6 in each term prior to the transfer application.

B. Ph.D. Student (Pre-candidacy)

The "candidacy requirement" composes of four major parts, namely, coursework requirement, candidacy examination, thesis proposal and stipulated Improving Postgraduate Learning (IPL) module requirements. Students must complete and fulfill the first three parts within the "maximum period for fulfilling candidacy requirements" and complete the stipulated IPL module(s) in their first year of study. Details of the requirement are listed below:

1. Coursework Requirement

(a) Lecture courses:

Each student must complete a minimum of 18 units of courses subject to the following conditions.

- (i) Each course should be a postgraduate course offered by the Division or a related course approved by the Division.
- (ii) The student must complete a faculty core course with a minimum grade of B.
- (iii) The student must attain a minimum grade of B in two courses, which must come from two distinct areas listed below:
 - Artificial Intelligence / Bioinformatics
 - Theoretical Computer Science
 - Data Engineering / Software Engineering / Programming Languages
 - Rich Media / Visual Computing / Human-Computer Interaction
 - Networking and Security
 - Digital Circuits & VLSI Design
 - Microprocessors & Systems

(b) Thesis research / monitoring courses:

Each student must enroll in the respective "Thesis Research Course" during every term within his/her pre-candidacy period. The pertinent course codes are as follows:

(i) For full-time students: CSCI8006

(ii) For part-time students: CSCI8003

(c) Other courses:

Each student must enroll in CSCI7600 "Seminar for Ph.D. Studies" during every term within his/her normative study period

2. Candidacy Examination

(a) Each student is required to submit a written thesis proposal and pass an oral defence as a Candidacy Examination within the maximum period of his/her pre-candidacy stage for the advancement to his/her post-candidacy stage.

- (a) Students are required to achieve a minimum grade of "C-" in the courses taken during the study in order to fulfill the graduation units and requirements, unless special approval is granted by the Division.
- (b) Students are required to complete and pass an Improving Postgraduate Learning (IPL) module on "Basics of Research Data Management" in the first year of study for partial fulfilment of candidacy requirements and completion of the University-specified requirement, with effect from the 2022-23 intake. This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf.
- (c) All students are required to meet all the aforementioned requirements within the maximum time frame allowed for their pre-candidacy stage.

(d) The Division may require a student to complete additional courses if deemed necessary.

4. Remarks

A student may apply for exemption from up to two lecture courses. For each exemption, the student must provide an equivalent course that they have completed prior to entering the Ph.D program. The exemption is subject to the following conditions.

- (a) The equivalent course must originate from a research-oriented program and match the technical depth of the course to be exempted.
- (b) The equivalent course must have been taken when the student was enrolled in a master's or a Ph.D. program.
- (c) The student must have achieved a minimum grade of B in the equivalent course.
- (d) The exemption does not apply to the courses specified in Requirement (iii) under "(a) Lecture courses" of Section 1 (Coursework Requirements).

C. Ph.D. Student (Post-candidacy)

1. Coursework Requirement

(a) Lecture courses:

There is no additional course requirement for Ph.D. candidate.

(b) Thesis research / monitoring courses:

Each student must enroll in the respective "Thesis Research Course" during every term within his/her post-candidacy period. The pertinent course codes are as follows.

(i) For full-time students: CSCI8012

(ii) For part-time students: CSCI8006

(iii) For continuing students: CSCI8003

(c) Other courses:

Each student must enroll in CSCI7600 "Seminar for Ph.D. Studies" during every term within his/her normative study period.

- (a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to Clause 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the General Regulations Governing Postgraduate Studies which can be accessed from the Graduate School Homepage: https://www.gs.cuhk.edu.hk.
- (b) The Division may require a student to complete additional courses if deemed necessary.
- (c) Students are required to achieve a minimum grade of "C-" in the courses taken during the study in order to fulfill the graduation units and requirements, unless special approval is granted by the Division.

- (d) Students are required to submit a research thesis and pass an oral examination for graduation.
 - In addition to completing the IPL modules stipulated for partial fulfillment of candidacy requirements, students are also required to complete the following IPL modules for graduation:
- (e) Complete an IPL module on "Observing Intellectual Property and Copyright Law during Research". This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/prodev/ipl.html.
- (f) Complete an online Research Ethics Training (RET) module on "Publication Ethics" offered by the Office of Research and Knowledge Transfer Services (ORKTS) and obtain a valid Publication Ethics Certificate for graduation. Relevant information can be accessed from the RET website at https://www.research-ethics.cuhk.edu.hk/web/.

III. Applicable to Full-time and/or Part-time students admitted between 2018-19 and 2023-24

A. M.Phil. Student

1. Coursework Requirement

(a) Lecture courses:

Each M.Phil. student is required to complete a minimum of 12 units of postgraduate courses offered by the Division and other related courses as approved by the Division.

(b) Thesis research / monitoring courses:

Each M.Phil. student must register for the relevant Thesis Research Course in every term throughout his/her study period.

(i) Year One M.Phil. student: CSCI8006

(ii) Year Two M.Phil. student: CSCI8012

(iii) Continuing M.Phil. student: CSCI8003

(c) Other courses

Each M.Phil. student is required to take CSCI6500 'Seminar for M.Phil. Studies' in every term throughout his/her normative study period.

- (a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to Section 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the General Regulations Governing Postgraduate Studies which can be accessed from the Graduate School Homepage: https://www.gs.cuhk.edu.hk.
- (b) Students may be required by the Division to complete other courses, such as ELTU5501 Postgraduate Presentation Skills or its equivalent, if deemed necessary.
- (c) A student must achieve a minimum grade of C- in each of the courses taken in order to fulfill the graduation requirements, unless special approval is granted by the Division.

- (d) Students are required to submit a term paper followed by an oral presentation at the end of every two terms.
- (e) Students are required to submit a research thesis and pass an oral examination for graduation.
- (f) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/prodev/ipl.html.
- (g) Starting from the 2022-23 intake, all RPg students are required to complete the Research Data Management (RDM) training in the first year of study as part of the graduation requirements. Relevant information is available at https://www.cuhk.edu.hk/clear/prodev/ipl.html and https://www.cuhk.edu.hk/clear/prodev/ipl.html and https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf.
- (h) Students are required to complete an online Research Ethics Training (RET) module on "Publication Ethics" offered by the Office of Research and Knowledge Transfer Services (ORKTS) and obtain a valid Publication Ethics Certificate for graduation. Relevant information can be accessed from the RET website at https://www.research-ethics.cuhk.edu.hk/web/.

3. Remarks

(a) Transfer of candidature to doctoral degree programme:

An M.Phil. student who wishes to transfer to the doctoral degree programme shall apply before their year 1 study and shall have to fulfill the University's regulation governing the transfer of candidature. In addition, he/she will have to satisfy the following requirements:

- (i) has completed at least 4 graduate courses, with each course grade at "B-" or above;
- (ii) the GPA of courses taken must be at least 2.6 for each term; and
- (iii) has demonstrated his/her research ability in the opinion of the Division.
- (b) Credit transfer

CSE Undergraduate students cannot transfer 5000-level course(s) to their postgraduate studies for fulfilling candidacy requirements.

B. Ph.D. Student (Pre-candidacy)

The "candidacy requirement" composes of three major parts, namely, coursework requirement, candidacy examination, and thesis proposal (and oral defence). Students must complete and fulfill all three parts within the "maximum period for fulfilling candidacy requirements". Details of the requirement are listed below:

A PhD student is required to obtain at least 18 units of courses before graduation, including coursework requirement (a faculty core course of 3 units and elective courses of 9 units) and candidacy examination (6 units)

1. Coursework Requirement

(a) Lecture courses:

- (i) Each Ph.D. student is required to complete a minimum of 12 units of postgraduate courses offered by the Division and other related courses as approved by the Division.
- (ii) Out of the 12 units, at least 3 units must be taken from the list of faculty core courses. To satisfy the Faculty core course requirement, students must achieve at least a grade B in the course. Otherwise, the course will only be counted as an elective.
- (iii) Out of the remaining 9 units of elective courses, the student may take a 3-unit senior undergraduate course (in 3000 level or above) offered by the Division, but in case of this, the student must achieve at least a grade B+ in the course.

(b) Thesis research / monitoring courses:

Each Ph.D. student must register for the relevant Thesis Research Course in every term throughout his/her study period.

- (i) Full-time Ph.D. (pre-candidacy) student: CSCI8006
- (ii) Part-time Ph.D. (pre-candidacy) student: CSCI8003

(c) Other courses:

Each Ph.D. student is required to take CSCI7600 'Seminar for Ph.D. Studies' in every term throughout his/her normative study period.

2. Candidacy Examination

- (a) Each Ph.D. student is required to pass the Candidacy Examination within the maximum period of his/her pre-candidacy stage for the advancement to his/her post-candidacy stage.
- (b) Each Ph.D. student is required to obtain grade B or above in two additional courses taken from any two of the following areas:
 - Artificial Intelligence / Bioinformatics
 - Theoretical Computer Science
 - Data Engineering / Software Engineering / Programming Languages
 - Rich Media / Visual Computing / Human-Computer Interaction
 - Networking and Security
 - Digital Circuits & VLSI Design
 - Microprocessors & Systems
- (c) No exemptions to the above two additional courses will be allowed.

3. Thesis Proposal and Oral Defence

Each Ph.D. student is required to submit a written thesis proposal and pass an oral defence.

- (a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to Section 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the General Regulations Governing Postgraduate Studies which can be accessed from the Graduate School Homepage: https://www.gs.cuhk.edu.hk.
- (b) Students may be required by the Division to complete other courses, such as ELTU5501 Postgraduate Presentation Skills or its equivalent, if deemed necessary.
- (c) A student must achieve a minimum grade of C- in each of the courses taken in order to fulfill the graduation requirements, unless special approval is granted by the Division.
- (d) Students are required to submit a term paper followed by an oral presentation at the end of every two terms.
- (e) Starting from the 2022-23 intake, all RPg students are required to complete the Research Data Management (RDM) training in the first year of study as part of the graduation requirements. Relevant information is available at https://www.cuhk.edu.hk/clear/prodev/ipl.html and https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf.

Remarks

- (a) For the advancement to post-candidacy stage, each Ph.D. student is required to pass:
 - (i) at least 12 units of graduate courses (or 9 units of graduate courses plus a 3-unit senior undergraduate course (in 3000 level or above))
 - (ii) the candidacy examination, and
 - (iii) a thesis proposal followed by an oral defence.
- (b) A student is required to discontinue from study if he/she cannot fulfill the candidacy requirement within the maximum period.
- (c) Overall, the student can only take a maximum of 3 units of the undergraduate courses over the pre- and post-candidacy periods to fulfill the graduate requirements.
- (d) Concerning the elective courses in coursework requirement, a student may take graduate courses relevant to their research from other divisions, faculties, and universities as approved by the supervisor and the Division.
- (e) Credit transfer

CSE Undergraduate students cannot transfer 5000-level course(s) to their postgraduate studies for fulfilling candidacy requirements.

C. Ph.D. Student (Post-candidacy)

- 1. Coursework Requirement
- (a) Lecture courses:

There is no additional course requirement for Ph.D. candidate.

(b) Thesis research / monitoring courses:

Each Ph.D. student must register for the relevant Thesis Research Course in every term throughout his/her study period.

- (i) Full-time Ph.D. (post-candidacy) student: CSCI8012
- (ii) Part-time Ph.D. (post-candidacy) student: CSCI8006
- (iii) Continuing Ph.D. (post-candidacy) student: CSCI8003

(c) Other courses:

Each Ph.D. student is required to take CSCI7600 'Seminar for Ph.D. Studies' in every term throughout his/her normative study period.

2. Other Requirements

- (a) Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to Section 13.0 "Unsatisfactory Performance and Discontinuation of Studies" of the General Regulations Governing Postgraduate Studies which can be accessed from the Graduate School Homepage: https://www.gs.cuhk.edu.hk.
- (b) Students may be required to take any courses if deemed necessary.
- (c) If the Division deems necessary, students who fail CSCI8xxx may be required to take course(s) or submit project report(s).
- (d) Students are required to submit a term paper followed by an oral presentation at the end of every two terms.
- (e) A student must achieve a minimum grade of C- in each of the courses taken in order to fulfill the graduation requirements, unless special approval is granted by the Division.
- (f) Students are required to submit a research thesis and pass an oral examination for graduation.
- (g) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This is an online module and relevant information can be accessed from the website: https://www.cuhk.edu.hk/clear/prodev/ipl.html.
- (h) Starting from the 2022-23 intake, all RPg students are required to complete the Research Data Management (RDM) training in the first year of study as part of the graduation requirements. Relevant information is available at https://www.cuhk.edu.hk/clear/prodev/ipl.html and https://www.cuhk.edu.hk/clear/prodev/ipl.html and https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf.
- (i) Students are required to complete an online Research Ethics Training (RET) module on "Publication Ethics" offered by the Office of Research and Knowledge Transfer Services (ORKTS) and obtain a valid Publication Ethics Certificate for graduation. Relevant information can be accessed from the RET website at https://www.research-ethics.cuhk.edu.hk/web/.

Remarks

Concerning the elective courses in coursework requirement, a student may take graduate courses relevant to their research from other divisions, faculties, and universities as approved by the supervisor and the Division.

CSE Undergraduate students cannot transfer 5000-level course(s) to their postgraduate studies for fulfilling candidacy requirements.

Course List

<u>Code</u>	Course Title	<u>Unit</u>
AIST5020	Trustworthy Artificial Intelligence	3
AIST5030	Generative Artificial Intelligence	3
CENG5030	Energy Efficient Computing	3
CENG5270	EDA for Physical Design of Digital Systems	3
CSCI5010	Practical Computational Geometry Algorithms	3
CSCI5030	Machine Learning Theory	3
CSCI5120	Advanced Topics in Database Systems	3
CSCI5150	Machine Learning Algorithms and Applications	3
CSCI5160	Advanced Algorithms	3
CSCI5210	Advanced Computer Graphics and Visualization	3
CSCI5320	Topics in Graph Algorithms	3
CSCI5350	Advanced Topics in Game Theory	3
CSCI5370	Quantum Computing	3
CSCI5390	Advanced GPU Programming	3
CSCI5440	Theory of Cryptography	3
CSCI5460	Virtual Reality	3
CSCI5540	Machine Learning Systems	3
CSCI5550	Advanced File and Storage Systems	3
CSCI5570	Large Scale Data Processing Systems	3
CSCI5600	Advanced Topics in Distributed Systems	3
CSCI5610	Advanced Data Structure	3
CSCI5620	Algorithms for Data Science	3
CSCI5630	Advanced Topics in Graph Mining	3
CSCI5640	Natural Language Processing	3
CSCI5650	Graph Neural Networks	3
CSCI5660	Advanced Topics of Al for Life Sciences	3
CSCI5670	Computational Imaging Systems and Algorithms	3
CSCI5680	Advanced Topics in Flash Memory Technology	3
CSCI5690	Automated Reasoning about Software Systems	3
CSCI6500	Seminars for M.Phil. Studies	1
CSCI7600	Seminars for Ph.D. Studies	1
CSCI8003	Thesis Research	3
CSCI8006	Thesis Research	6
CSCI8012	Thesis Research	12

Faculty Core Course List

Faculty Core t	Sourse List	
ENGG5101	Advanced Computer Architecture	3
ENGG5103	Techniques for Data Mining	3
ENGG5104	Image Processing and Computer Vision	3
ENGG5105	Computer and Network Security	3
ENGG5202	Pattern Recognition	3
ENGG5281	Advanced Microwave Engineering	3
ENGG5282	Nanoelectronics	3
ENGG5291	Fiber Optics: Principles and Technologies	3
ENGG5301	Information Theory	3
ENGG5303	Advanced Wireless Communications	3
ENGG5383	Applied Cryptography	3
ENGG5392	Lightwave System Technologies	3
ENGG5402	Advanced Robotics	3
ENGG5403	Linear System Theory and Design	3
ENGG5404	Micromachining and Microelectromechanical Systems	3
ENGG5501	Foundations of Optimization	3
ENGG5601	Principles of Biomechanics and Biomaterials	3
ENGG5781	Matrix Analysis and Computations	3