

Study Scheme

Postgraduate Student Handbook 2025-26 (ARC-I)

FACULTY OF SOCIAL SCIENCE

Architecture

Study Scheme

M.Phil.-Ph.D. Programme in Architecture (Full-time and 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>.

Applicable to students admitted in 2025-26 and thereafter

A. M.Phil. Student

1. Coursework Requirement

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 & ARCH7202 or equivalent course offered by **6 units**
other Graduate Division as recommended by the adviser

Other courses as approved by the adviser, and at least **6 units**
one of these courses must be offered by the School of
Architecture

**Total: 12
units**

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time students and continuing students: ARCH8003

(c) Other courses:

M.Phil. Students are required to take the following course every term that they are in residence.

ARCH7030

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) Students are required to submit a research thesis and pass an oral examination for graduation.

(c) 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/ipi.html>.

(d) 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>.

- (e) 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.
- (f) 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/>.

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

The "candidacy requirement" composes of four major parts, namely, coursework requirement, candidacy examination, thesis proposal (and oral defence) 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:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 & ARCH7202 or equivalent course offered by **6 units** other Graduate Division as recommended by the adviser

Other courses as approved by the adviser, and at least **6 units**
one of these courses must be offered by the School of
Architecture

**Total: 12
units**

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time and continuing students: ARCH8003

(c) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every term that they are in residence.

ARCH7030

2. *Candidacy Examination*

The candidacy examination consists of two parts. The first is a written examination. The student, in consultation with the supervisor, shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 72 hours

Part A: A general Field Question based on a list of readings prepared by the student in consultation with the supervisor in advance. The answer should demonstrate the student's understanding of the field within the domain of architecture in relation to his/her proposed thesis research.

Part B: A Methods Question based on a list of readings prepared by the

student in consultation with the supervisor in advance. The answer should demonstrate the student's understanding of the methodology s/he intends to use in the thesis research.

Scheme 2

Two pieces of written work stipulated by the supervisor for academic publication in the reputable venue of the student's study discipline. These should include one piece of writing that demonstrates the student's understanding of the literature relevant to the thesis research; and one piece of writing that demonstrates the student's understanding of methodology related to the thesis research. The 2 pieces of writing should have been submitted for publication or conference presentation; in general, "under review" papers can be considered to have achieved the required quality.

The second is an oral examination.

A student may attempt the examination a maximum of two times. Coursework may not be substituted for any part of the examination.

3. *Thesis Proposal and Oral Defence*

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

4. *Other Requirements*

Students are required to complete the following Improving Postgraduate Learning (IPL) modules

in their first year of study for partial fulfillment of candidacy requirements:

- (a) 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>.

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

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

1. Coursework Requirement

- (a) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Part-time students: ARCH8006

Continuing students: ARCH8003

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) 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 fulfilment of candidacy requirements, students are also required to complete the

following IPL modules for graduation:

- (c) 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>.
- (d) 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/>.
- (e) 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.

D. Ph.D. Student in the Computational Social Science Concentration (Pre-candidacy)

The "candidacy requirement" composes of four major parts, namely, coursework requirement, candidacy examination, thesis proposal (and oral defence) 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:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-" in SOCI6002 and other

elective courses approved by the adviser, and minimum grade of "C" in CSS Elective Courses.

SOCI6002 or equivalent course as recommended by the **3 units**
adviser

Three elective courses **9 units**

[Choose at least two and up to three CSS Elective
Courses]

CMSC5707 / CMSC5733 / CMSC5734 / COMM6320 /
CSCI5150 / CSCI5350 / CSCI5640 / ECON5150 /
ECON5180 / ENGG5103 / ENGG5108 / GISM5065
/ MMAT5370

Other courses as approved by the adviser

**Total: 12
units**

(b) Students are required to take the seminar course each
term from the second year of attendance as follows:

SOSC7010 **3 units**

(c) Thesis research courses:

Students are required to take the following Thesis Research Course every
term.

Full-time students: ARCH8006

Continuing students: ARCH8003

(d) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every
term that they are in residence.

2. *Candidacy Examination*

The candidacy examination consists of two parts. The first is a written examination. The student, in consultation with the supervisor, shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 72 hours

Part A: A general Field Question based on a list of readings prepared by the student in consultation with the supervisor in advance. The answer should demonstrate the student's understanding of the field within the domain of architecture in relation to his/her proposed thesis research.

Part B: A Methods Question based on a list of readings prepared by the student in consultation with the supervisor in advance. The answer should demonstrate the student's understanding of the methodology s/he intends to use in the thesis research.

Scheme 2

Two pieces of written work stipulated by the supervisor for academic publication in the reputable venue of the student's study discipline. These should include one piece of writing that demonstrates the student's understanding of the literature relevant to the thesis research; and one piece of writing that demonstrates the student's understanding of methodology related to the thesis research. The 2 pieces of writing should have been submitted for publication or conference presentation; in general, "under review" papers can be considered to have achieved the required quality.

The second is an oral examination.

A student may attempt the examination a maximum of two times.
Coursework may not be substituted for any part of the examination.

3. Thesis Proposal and Oral Defence

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

4. Other Requirements

Students are required to complete the following Improving Postgraduate Learning (IPL) modules

in their first year of study for partial fulfillment of candidacy requirements:

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

E. Ph.D. Student in the Computational Social Science Concentration (Post-candidacy)

1. Coursework Requirement

(a) Seminar courses:

Students should take the following course every term for up to four terms.

Full-time students: SOSOC7020

3 units

Continuing students: SOSC7020

3 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Continuing students: ARCH8003

2. Additional Requirements

PhD students in Computational Social Science concentration must fulfill additional requirements listed below. Failure to do so, students will be put on academic probation.

- (a) Completion of the equivalent of a publishable research paper, a first or solo authored manuscript by the 1st term of the third year of attendance, accepted by the supervisor and endorsed by the Graduate Division Head.
- (b) Completion of a Computational Social Science concentration examination by the end of the third year of attendance. This examination is similar to the candidacy examination, except that its focus has to be complementary to the candidacy examination and the topic should be approved by the student's supervisor. The procedure, format and evaluation will be similar to a candidacy examination.

3. 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) 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:

- (c) 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>.
- (d) 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/>.
- (e) 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.

Applicable to students admitted in 2024-25 and thereafter

A. M.Phil. Student

1. Coursework Requirement

- (a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division as **3 units** recommended by the adviser

Other courses as approved by the adviser, and at least one of these **9 units**
courses must be offered by the School of Architecture

Total: 12 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time students and continuing students: ARCH8003

(c) Other courses:

M.Phil. Students are required to take the following course every term that they are in residence.

ARCH7030

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) Students are required to submit a research thesis and pass an oral examination for graduation.
- (c) 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>.
- (d) 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>.
- (e) 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/>.

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

The "candidacy requirement" composes of four major parts, namely, coursework requirement, candidacy examination, thesis proposal (and oral defence) 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:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division **3 units**
as recommended by the adviser

Other courses as approved by the adviser, and at least one of these **9 units**
courses must be offered by the School of Architecture

Total: 12 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time and continuing students: ARCH8003

(c) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every term that they are in residence.

ARCH7030

2. Candidacy Examination

The candidacy examination consists of two parts. The first is a written examination. The supervisor shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 24 hours

Part A: a question on a broad domain with architecture

Part B: a question on a sub-domain within the broad domain

Scheme 2

Two pieces of written work stipulated by the supervisor, demonstrating the student's understanding of the field, e.g., one or more case studies, plus a piece about an aspect or aspects of the literature of the field.

The second is an oral examination.

A student may attempt the examination a maximum of two times. Coursework may not be substituted for any part of the examination.

3. Thesis Proposal and Oral Defence

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

4. Other Requirement

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. Ph.D. Student (Post-candidacy)

1. Coursework Requirement

(a) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Part-time students: ARCH8006

Continuing students: ARCH8003

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) 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:

- (c) 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>.
- (d) 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/>.

D. Ph.D. Student in the Computational Social Science Concentration (Pre-candidacy)

The "candidacy requirement" composes of four major parts, namely, coursework requirement, candidacy examination, thesis proposal (and oral defence) 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:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-" in SOCI6002 and other elective courses approved by the adviser, and minimum grade of "C" in CSS Elective Courses.

SOCI6002 or equivalent course as recommended by the advisor **3 units**

Three elective courses **9 units**

[Choose at least two and up to three CSS Elective Courses]

CMSC5707 / CMSC5733 / CMSC5734 / COMM6320 / CSCI5150 /
CSCI5350 / CSCI5640 / ECON5150 / ECON5180 / ENGG5103 /
ENGG5108 / GISM5065 / MMAT5370

Other courses as approved by the adviser

**Total: 12
units**

- (b) Students are required to take the seminar course each term from the second year of attendance as follows:

(c) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Continuing students: ARCH8003

(d) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every term that they are in residence.

ARCH7030

2. *Candidacy Examination*

The candidacy examination consists of two parts. The first is a written examination. The supervisor shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 24 hours

Part A: a question on a broad domain with architecture

Part B: a question on a sub-domain within the broad domain

Scheme 2

Two pieces of written work stipulated by the supervisor, demonstrating the student's understanding of the field, e.g., one or more case studies, plus a piece about an aspect or aspects of the literature of the field.

The second is an oral examination.

A student may attempt the examination a maximum of two times. Coursework may not be substituted for any part of the examination.

3. *Thesis Proposal and Oral Defence*

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

4. *Other Requirement*

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>.

E. Ph.D. Student in the Computational Social Science Concentration (Post-candidacy)

1. *Coursework Requirement*

(a) Seminar courses:

Students should take the following course every term for up to four terms.

Full-time students: SOSC7020 **3 units**

Continuing students: SOSC7020 **3 units**

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Continuing students: ARCH8003

2. *Additional Requirements*

PhD students in Computational Social Science concentration must fulfill additional requirements listed below. Failure to do so, students will be put on academic probation.

- (a) Completion of the equivalent of a publishable research paper, a first or solo authored manuscript by the 1st term of the third year of attendance, accepted by the supervisor and endorsed by the Graduate Division Head.
- (b) Completion of a Computational Social Science concentration examination by the end of the third year of attendance. This examination is similar to the candidacy examination, except that its focus has to be complementary to the candidacy examination and the topic should be approved by the student's supervisor. The procedure, format and evaluation will be similar to a candidacy examination.

3. *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) 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:
- (c) 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>.
- (d) 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/>.

Applicable to students admitted in 2022-23 and 2023-24

A. M.Phil. Student

1. Coursework Requirement

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division as **3 units** recommended by the adviser

Other courses as approved by the adviser **9 units**

Total: 12 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time students and continuing students: ARCH8003

(c) Other courses:

M.Phil. Students are required to take the following course every term that they are in residence.

ARCH7030

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 are required to submit a research thesis and pass an oral examination for graduation.
- (c) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This will be an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/prodev/ipl.html>.
- (d) Complete an IPL module on "Research Data Management Training". This is an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf>. Students are required to complete and pass the module in their first year of studies, with effect from the 2022-23 intake.
- (e) 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/>.

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:

1. *Coursework Requirement*

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division **3 units**
as recommended by the adviser

Other courses as approved by the adviser **9 units**

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time and continuing students: ARCH8003

(c) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every term that they are in residence.

ARCH7030

2. *Candidacy Examination*

The candidacy examination consists of two parts. The first is a written examination. The supervisor shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 24 hours

Part A: a question on a broad domain with architecture

Part B: a question on a sub-domain within the broad domain

Scheme 2

Two pieces of written work stipulated by the supervisor, demonstrating the student's understanding of the field, e.g., one or more case studies, plus a piece about an aspect or aspects of the literature of the field.

The second is an oral examination.

A student may attempt the examination a maximum of two times. Coursework may not be substituted for any part of the examination.

3. *Thesis Proposal and Oral Defence*

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

4. Other Requirement

Complete an IPL module on "Research Data Management Training". This is an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf>. Students are required to complete and pass the module in their first year of studies, with effect from the 2022-23 intake.

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

1. Coursework Requirement

(a) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Part-time students: ARCH8006

Continuing students: ARCH8003

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 are required to submit a research thesis and pass an oral examination for graduation.
- (c) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This will be an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/prodev/ipi.html>.
- (d) 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/>.

D. Ph.D. Student in the Computational Social Science Concentration (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:

1. Coursework Requirement

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-" in ARCH7201 and other elective courses approved by the adviser, and minimum grade of "C" in CSS Elective Courses.

ARCH7201 or equivalent course offered by other Graduate Division **3 units**
as recommended by the adviser

Three elective courses **9 units**

[Choose at least two and up to three CSS Elective Courses]

CMSC5707 / CMSC5733 / CMSC5734 / COMM6320 / CSCI5150 /
CSCI5350 / CSCI5640 / ECON5150 / ECON5180 / ENGG5103 /
ENGG5108 / GISM5065 / MMAT5370

Other courses as approved by the adviser

**Total: 12
units**

(b) Students are required to take the seminar course each term from the second year of attendance as follows:

SOSC7010 **3 units**

(c) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Continuing students: ARCH8003

(d) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every term that they are in residence.

ARCH7030

2. Candidacy Examination

The candidacy examination consists of two parts. The first is a written examination. The supervisor shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 24 hours

Part A: a question on a broad domain with architecture

Part B: a question on a sub-domain within the broad domain

Scheme 2

Two pieces of written work stipulated by the supervisor, demonstrating the student's understanding of the field, e.g., one or more case studies, plus a piece about an aspect or aspects of the literature of the field.

The second is an oral examination.

A student may attempt the examination a maximum of two times. Coursework may not be substituted for any part of the examination.

3. *Thesis Proposal and Oral Defence*

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

4. *Other Requirement*

Complete an IPL module on "Research Data Management Training". This is an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/download/IPL-Researchskills.pdf>. Students are required to complete and pass the module in their first year of studies, with effect from the 2022-23 intake.

E. Ph.D. Student in the Computational Social Science Concentration (Post-candidacy)

1. *Coursework Requirement*

(a) Seminar courses:

Students should take the following course every term for up to four terms.

Full-time students: SOSC7020

3 units

Continuing students: SOSC7020

3 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Continuing students: ARCH8003

2. *Additional Requirements*

PhD students in Computational Social Science concentration must fulfill additional requirements listed below. Failure to do so, students will be put on academic probation.

- (a) Completion of the equivalent of a publishable research paper, a first or solo authored manuscript by the 1st term of the third year of attendance, accepted by the supervisor and endorsed by the Graduate Division Head.
- (b) Completion of a Computational Social Science concentration examination by the end of the third year of attendance. This examination is similar to the candidacy examination, except that its focus has to be complementary to the candidacy examination and the topic should be approved by the student's supervisor. The procedure, format and evaluation will be similar to a candidacy examination.

3. *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 are required to submit a research thesis and pass an oral examination for graduation.
- (c) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This will be an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/prodev/ipl.html>.
- (d) 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/>.

Applicable to students admitted in 2017-18 to 2021-22

A. M.Phil. Student

1. Coursework Requirement

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division as **3 units** recommended by the adviser

Other courses as approved by the adviser **9 units**

Total: 12 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time students and continuing students: ARCH8003

(c) Other courses:

M.Phil. Students are required to take the following course every term that they are in residence.

ARCH7030

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 are required to submit a research thesis and pass an oral examination for graduation.

- (c) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This will be an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/prodev/ipl.html>.

- (d) 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/>.

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:

1. Coursework Requirement

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division **3 units**
as recommended by the adviser

Other courses as approved by the adviser **9 units**

Total: 12 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time and continuing students: ARCH8003

(c) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every term that they are in residence.

ARCH7030

2. Candidacy Examination

The candidacy examination consists of two parts. The first is a written examination. The supervisor shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 24 hours

Part A: a question on a broad domain with architecture

Part B: a question on a sub-domain within the broad domain

Scheme 2

Two pieces of written work stipulated by the supervisor, demonstrating the student's understanding of the field, e.g., one or more case studies, plus a piece about an aspect or aspects of the literature of the field.

The second is an oral examination.

A student may attempt the examination a maximum of two times. Coursework may not be substituted for any part of the examination.

3. *Thesis Proposal and Oral Defence*

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

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

1. *Coursework Requirement*

(a) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Part-time students: ARCH8006

Continuing students: ARCH8003

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 are required to submit a research thesis and pass an oral examination for graduation.

(c) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This will be an online module and relevant information can be accessed from the website: <https://www.cuhk.edu.hk/clear/prodev/ipl.html>.

(d) 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/>.

Applicable to students admitted in 2016-17 and before

A. M.Phil. Student

1. Coursework Requirement

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division as **3 units** recommended by the adviser

Other courses as approved by the adviser **9 units**

Total: 12 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time students and continuing students: ARCH8003

(c) Other courses:

M.Phil. Students are required to take the following course every term that they are in residence.

ARCH7030

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 are required to submit a research thesis and pass an oral examination for graduation.

(c) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This will be an online module and relevant

information can be accessed from the website: <https://www.cuhk.edu.hk/clear/prodev/ipl.html>.

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:

1. Coursework Requirement

(a) Lecture courses:

In order to graduate, students are required to complete a minimum of 12 units of courses with a minimum grade of "B-".

ARCH7201 or equivalent course offered by other Graduate Division **3 units**
as recommended by the adviser

Other courses as approved by the adviser **9 units**

Total: 12 units

(b) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8006

Part-time and continuing students: ARCH8003

(c) Other courses:

Pre-candidacy Ph.D. students are required to take the following course every term that they are in residence.

ARCH7030

2. Candidacy Examination

The candidacy examination consists of two parts. The first is a written examination. The supervisor shall stipulate one of the following two schemes for the written examination:

Scheme 1

A paper in two parts, which should be completed by the student within 24 hours

Part A: a question on a broad domain with architecture

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Scheme 2

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The second is an oral examination.

A student may attempt the examination a maximum of two times. Coursework may not be substituted for any part of the examination.

3. *Thesis Proposal and Oral Defence*

Students must prepare a written thesis proposal. They must then make an oral presentation and defence of the thesis.

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

1. *Coursework Requirement*

(a) Thesis research courses:

Students are required to take the following Thesis Research Course every term.

Full-time students: ARCH8012

Part-time students: ARCH8006

Continuing students: ARCH8003

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 are required to submit a research thesis and pass an oral examination for graduation.

(c) Complete an Improving Postgraduate Learning (IPL) module on "Observing Intellectual Property and Copyright Law during Research". This will be an online module and relevant

information can be accessed from the website: <https://www.cuhk.edu.hk/clear/prodev/ipl.html>.

Course List

<u>Code</u>	<u>Course Title</u>	<u>Unit</u>
ARCH7030	Research Seminar	1
ARCH7201	Research Methods I	3
ARCH7202	Research Methods II	3
ARCH8003	Thesis Research	3
ARCH8006	Thesis Research	6
ARCH8012	Thesis Research	12
CMSC5707	Advanced Topics in Artificial Intelligence	3
CMSC5733	Social Computing	3
CMSC5734	Network Science	3
COMM6320	Digital Research	3
CSCI5150	Machine Learning Algorithms and Applications	3
CSCI5350	Advanced Topics in Game Theory	3
CSCI5640	Natural Language Processing	3
ECON5150	Applied Econometrics	3
ECON5180	Economics and Data Science	3
ENGG5103	Techniques for Data Mining	3
ENGG5108	Big Data Analytics	3
GISM5065	Geospatial Big Data for Smart Urban Planning	3
MMAT5370	Social and Economic Networks: Theory, Modelling and Computations	3
SOCI6002	Advanced Methodology	3
SOSC7010	Seminar (I): Computational Social Science	3

Study Scheme

Learning Outcomes

1. Our research programmes aim to educate researchers to embark on careers that would allow them to become world leaders in their fields, working as university professors, principal

investigators in research institutes, senior managers in enterprises, or experts in other professions related to the pursuit and application of knowledge.

2. The University expects **doctoral degree graduates** of research programmes to have acquired in-depth knowledge in a number of major areas of an academic discipline while maintaining a broad understanding of other related fields. Doctoral degree graduates should have accumulated enough educational experience and background learning to be capable of performing independent research to advance scholarship, with global standards. In particular, doctoral graduates should have the ability to identify research trends and opportunities, venture into new research areas when appropriate, define long-term research objectives, formulate original research problems, and originate and develop solution methodologies. Doctoral graduates should be capable of producing research output at a level that can either lead to publications in high-ranking scholastic venues, or to novel applications in relevant industrial, commercial, or other public sectors, or to other forms of useful knowledge transfer to society. They should have gained proficiency in techniques of knowledge dissemination through presentation and writing and some teaching experiences through student tutoring.

3. The University expects **master's degree graduates** of research programmes to have acquired advanced knowledge in major areas of an academic discipline while maintaining a broad understanding of other related fields. Master's degree graduates should have gained enough background knowledge to enable them to perform research with minimal supervision. In particular, they should have the ability to formulate individual research tasks and to develop solution methodologies under minimal supervision. Master's degree graduates should be capable of producing original, innovative research output, some of which may lead to publication in well-respected scholastic venues. They should have gained proficiency in techniques of knowledge dissemination through presentation and writing.

4. For graduates of research programmes at both doctoral and master's level, communication and language skills at a level appropriate to university graduates are expected already at the time of admission. In particular, fluent communication skills are expected in the language(s) essential to their research areas. In general, a high level of proficiency in English is expected as it is commonly regarded as the default international research language. Ability in a second language is encouraged.