

Architecture

- M. Architectural Studies
- M. Architecture
- Ph.D. Architecture
- Graduate Diploma in Architectural Conservation

M. Architectural Studies

About the Program

The Master of Architectural Studies (M.A.S.) is a 6.0-credit non-accredited degree for students interested in pursuing in-depth architectural research. Students holding a M.A.S. may be considered for admission to the PhD program in Architecture.

Academic Requirements

See the General Regulations section of this Calendar.

Architecture permits the C+ option in the 13.0-credit M.Arch. 1 curriculum only. (see Section 11.2 of the General Regulations).

Admission Requirements

Successful completion of a degree in architectural studies with a minimum academic average of B- in their undergraduate studies.

Application must be accompanied by:

1. an essay of no more than 1500 words stating the topic of their future thesis, their selected focus of study defined geographically, temporally and architecturally including possible primary sources;
2. a portfolio of projects and creative works; and
3. a review of their interaction and experience in architectural or related practice (may be text, drawings and models, or built work) if applicable.

Professional experience may be taken into consideration.

Where applicants do not hold a degree in architecture but possess an honours degree in a related discipline, equivalence may be considered on the basis of a demonstrated, exceptional research ability and high academic standing (B+ minimum average).

When professional work is included as part of an applicant's portfolio, a precise description of the applicant's involvement and responsibilities in the completion of the project must be included.

All applicants must provide two confidential letters of reference on the prescribed forms and a statement of academic and professional objectives.

The Faculty of Graduate and Postdoctoral Affairs requires applicants whose native tongue is not English to be tested for proficiency in English, as described in Section 3.6 of the General Regulations of this Calendar.

An admissions committee, which includes the supervisor of graduate studies, will determine the merits of each applicant on the basis of academic record, evidence of visual and architectural design ability, and, where

applicable, professional experience. Enrollment is limited. The School's admission policy is governed by the availability of graduate student space.

Program Requirements

General requirements:

- | | |
|---|-----|
| 1. 3.5 credits in core courses | 3.5 |
| 2. 0.5 credit in elective course credit | 0.5 |
| 3. 2.0 credits in thesis, which must be defended at an oral examination | 2.0 |

Total Credits	6.0
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Specific requirements:

Year 1

Fall Term

- | | |
|-----------------|--------------------------------|
| ARCH 5301 [0.5] | Seminar: Vitruvian Exercises I |
| ARCH 5302 [0.5] | Workshop: Daedalic Exercises I |
| ARCH 5101 [1.0] | Colloquium I |

Winter Term

- | | |
|-----------------|------------------------------------|
| ARCH 5302 [0.5] | Seminar II: Vitruvian Exercises II |
| ARCH 5302 [0.5] | Workshop: Daedalic Exercises II |
| ARCH 5101 [1.0] | Colloquium I |

Year 2

Fall Term

- | | |
|-----------------|-----------------------------|
| ARCH 5003 [0.5] | Design and Culture Workshop |
| ARCT 5909 [2.0] | M.A.S. Thesis ¹ |

Winter Term

- | | |
|-----------------|----------------------------|
| ARCT 5909 [2.0] | M.A.S. Thesis ¹ |
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Note(s):

- ¹ ARCT 5909 [2.0] normally extends over two terms.

M. Architecture

About the Program

The Master of Architecture is a studio based degree program. The program stresses creativity and innovation within theoretical and practical parameters.

Students entering the program with Carleton's Bachelor of Architectural Studies (BAS-Design, or equivalent degree) will follow an 8.0 credit curriculum culminating in a two-credit thesis [M.Arch]. Students entering with Carleton's Bachelor of Architectural Studies (Urbanism, Conservation and Sustainability, or Philosophy and Criticism), a degree deemed equivalent or an Honours undergraduate degree in another field, will follow a 13.0 credit curriculum [M.Arch. 1] culminating in a two-credit Directed Research Studio. Each applicant with a suitable undergraduate degree will be evaluated for additional course requirements in order to satisfy professional accreditation and the "Student Performance Criteria" as defined by the Canadian Architecture Certification Board [CACB] to a maximum of 15.5 credits for the degree.

Academic Regulations

See the General Regulations section of this Calendar.

Architecture does not permit the C+ option (see Section 11.2 of the General Regulations).

Admission Requirements

M. Architecture - 8.0 credits

- Successful completion of the Bachelor of Architectural Studies in Design or equivalent (see Undergraduate Calendar) with a minimum academic average of B-.
- Application must be accompanied by two examples of the student's academic writing and a portfolio of their most recent studio work demonstrating facility in architectural design and methods of representation.

M. Architecture - 13.0 credits

- Successful completion of Carleton's Bachelor of Architectural Studies (Urbanism, Conservation & Sustainability, or Philosophy and Criticism) degree with a minimum academic average of B- in their undergraduate studies.
- Where applicants do not hold a degree in architecture but possess either an honours degree in a related discipline, equivalence may be considered on the basis of a demonstrated, exceptional research ability and high academic standing (B+ minimum average).

Applicable to both 8.0 credit and 13.0 credit curricula

- Professional experience may be taken into consideration.
- The Faculty of Graduate and Postdoctoral Affairs requires applicants whose native tongue is not English to be tested for proficiency in English, as described in Section 3.6 of the General Regulations of this Calendar.
- An admissions committee, which includes the Associate Director [Graduate Programs] , will determine the merits of each candidate on the basis of academic record, evidence of visual and architectural design, and, where applicable, professional experience. Enrollment is limited. The School's admission policy is governed by the availability of graduate student space. Possession of the minimum academic admission requirement does not, in itself, guarantee admission.
- All applicants must provide two confidential letters of reference on the prescribed forms and a statement of academic and professional objectives.
- When professional work is included as part of an applicant's portfolio, a precise description of the applicant's involvement and responsibilities in the completion of the project must be included.
- Applications must be accompanied by
 - a. an essay of no more than 1500 words stating the topic of their future thesis, their selected focus of study defined geographically, temporally and architecturally including possible primary sources,
 - b. a portfolio of projects and creative works, and
 - c. a review of their interaction and experience in architectural or related practice (may be text, drawings and models, or built work) if applicable.

M. Architecture - 8.0 credits

General Requirements

1. 2.0 credits in core courses	2.0
2. 1.0 credit in elective courses	1.0
3. 3.0 credits in studio courses	3.0

4. 2.0 credits in Thesis, which must defended at an oral examination 2.0

Total Credits 8.0

Specific Requirements

Year 1

Fall Term

ARCH 5200 [0.5] Graduate Seminar 1: Introduction to Critical Thought in Architecture

ARCC 5100 [0.5] Advanced Building Systems

ARCS 5105 [1.5] Graduate Studio 1

ARCC 5200 [0.5] or 0.5 credit elective from courses at the 5000-level or above, approved by the Associate Director (Graduate Programs)

Winter Term

ARCH 5201 [0.5] Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture

ARCS 5106 [1.5] Graduate Studio 2

0.5 credit in elective from courses at the 5000-level or above, approved by the Associate Director (Graduate Programs)

Year 2

Fall Term

ARCS 5909 [2.0] Thesis - Independent Study (See Note 1, below)

or ARCN 5909 [2.0] Thesis - Directed Research Studio (DRS)

ARCC 5200 or 0.5 credit elective from courses at the 5000-level or above, approved by the Associate Director (Graduate Programs)

Winter Term

ARCS 5909 [2.0] Thesis - Independent Study (See Note 1, below)

or ARCN 5909 [2.0] Thesis - Directed Research Studio (DRS)

0.5 credit in elective from courses at the 5000-level or above, approved by the Associate Director (Graduate Programs)

M. Architecture 1 - 13.0 credits

General Requirements - Program Core Curriculum

1. 1.5 credits in core courses	1.5
2. 6.0 credits in studio courses	6.0
3. 3.5 credits in History/Theory electives	3.5
4. 2.0 credits in Thesis-Directed Research Studio, which must be defended at an oral examination	2.0

Total Credits 13.0

In addition to the Program Core Curriculum, the following courses are required in order to meet the Accreditation requirements (Student Performance Criteria) of the Professional Program. The following Professional Curriculum may serve to fulfill the elective requirements in the Core Program.

1. 3.5 credits in Architectural Technology courses	3.5
2. 1.5 credits in comprehensive studio courses	1.5
3. 0.5 credit in Computer Modeling	0.5
4. 0.5 credit in History/Theory of Architecture courses	0.5

Total Credits 6.0

Specific Requirements - Core Curriculum

Year 1

Fall Term 2.5

0.5 credit in elective	
ARCS 5102 [1.5]	M.Arch. 1 - Studio I
0.5 credit in History and Theory elective	
Winter Term	2.5
0.5 credit in elective	
ARCS 5103 [1.5]	M.Arch. 1 - Studio II
0.5 in elective	
Year 2	
Fall Term	2.5
ARCH 5200 [0.5]	Graduate Seminar 1: Introduction to Critical Thought in Architecture
0.5 credit in elective	
ARCS 5104 [1.5]	M.Arch. 1 - Studio III
Winter Term	2.5
ARCH 5201 [0.5]	Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture
0.5 credit in elective	
ARCS 5106 [1.5]	Graduate Studio 2
Year 3	
Fall Term	2.5
ARCN 5909 [2.0]	Thesis - Directed Research Studio (DRS)
ARCC 5100 [0.5]	Advanced Building Systems
Winter Term	2.5
0.5 credit in History and Theory elective	
ARCN 5909 [2.0]	Thesis - Directed Research Studio (DRS)
Total Credits	15.0

Professional Curriculum Course List

ARCC 5096 [0.5]	Building Technology I
ARCH 5010 [0.5]	History and Theory of Modern Architecture
ARCC 5097 [0.5]	Building Technology II
ARCN 5000 [0.5]	Directed Studies in Computer-Aided Design
ARCC 5098 [0.5]	Building Technology III
ARCC 4500 [0.5]	Design Economics
ARCS 5105 [1.5]	Graduate Studio 1 (Comprehensive)
ARCC 5200 [0.5]	Professional Practice
ARCC 5099 [0.5]	Building Technology IV
ARCC 5100 [0.5]	Advanced Building Systems

Core and Professional Curriculum

Year 1	
Fall Term	2.5
ARCC 5096 [0.5]	Building Technology I
ARCS 5102 [1.5]	M.Arch. 1 - Studio I
ARCH 5010 [0.5]	History and Theory of Modern Architecture
Winter Term	2.5
ARCC 5097 [0.5]	Building Technology II
ARCS 5103 [1.5]	M.Arch. 1 - Studio II
ARCN 5000 [0.5]	Directed Studies in Computer-Aided Design

Year 2	
Fall Term	2.5
ARCC 5098 [0.5]	Building Technology III
ARCC 4500 [0.5]	Design Economics
ARCS 5104 [1.5]	M.Arch. 1 - Studio III
Winter Term	2.5
ARCH 5201 [0.5]	Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture
ARCC 5200 [0.5]	Professional Practice
ARCS 5105 [1.5]	Graduate Studio 1
Year 3	
Fall Term	2.5
ARCH 5200 [0.5]	Graduate Seminar 1: Introduction to Critical Thought in Architecture
ARCC 5099 [0.5]	Building Technology IV
ARCS 5106 [1.5]	Graduate Studio 2
Winter Term	1.5
ARCC 5100 [0.5]	Advanced Building Systems
ARCN 5909 [2.0]	Thesis - Directed Research Studio (DRS) ¹
Summer Term	1.5
0.5 credit in elective at the 4000-level or above, approved by the Associate Director (Graduate Program)	
ARCN 5909 [2.0]	Thesis - Directed Research Studio (DRS) ¹
Total Credits	15.5

Note(s):

- ¹ ARCS 5909 [2.0] Thesis - Independent Study and ARCN 5909 [2.0] Thesis - Directed Research Studio (DRS) normally extend over two terms. This project will follow guidelines prescribed by the Associate Director (Graduate Programs).
- ² The thesis is expected to include both a written text and a design component with appropriate modes of two and three-dimensional representation, including digital. Final thesis documentation must satisfy the requirements established by the Faculty of Graduate and Postdoctoral Affairs.

Ph.D. Architecture

About the Program

Carleton University's Ph.D. in Architecture is an innovative, comprehensive doctoral program that fuses research with critical practice in architecture. Exceptionally talented and thoughtful architects are invited to undertake original, speculative, and experimental research within the well-established trinity of pathos, ethos, and logos that has come to distinguish the School of Architecture at Carleton.

At the Carleton University Azrieli School of Architecture and Urbanism, doctoral projects will draw on the interrelated genetic, performative, and reflective aspects of architecture, design and material process.

Academic Regulations

See the General Regulations section of this Calendar.

Admission Requirements

- The normal requirement for admission to the doctoral program in Architecture is a Master of Architecture or a recognized equivalent in a discipline related to the strengths of the program.
- A minimum GPA of A-.
- Students enrolled in the Master of Architectural Studies at Carleton University who have shown outstanding academic performance and research promise may be admitted to the Ph.D. program without completing the master's program. Normal Ph.D. program requirements, as stated below, will apply. Each case will be considered on an individual basis for fast-tracking to the Ph.D. program.
- A portfolio including:
 1. an essay of no more than 1,500 words stating the topic of their future dissertation, selected focus of study defined geographically, temporally and architecturally including possible primary sources,
 2. a portfolio of projects and creative works,
 3. a review of interaction and experience in architectural practice, and
 4. a cover letter addressing why they have decided to apply to Carleton University for their Ph.D.
- The Ph.D. program in Architecture must be undertaken on a full-time basis.
- Students must be proficient (e.g. able to undertake research) in one language other than English or French.

Program Requirements

Ph.D. Architecture - General Requirements

Students admitted to the PhD program in Architecture will be required to complete the following 10.0 credits:

- 1.0 credit in core Workshop courses
- 1.0 credit in core Seminar courses
- 2.0 credits in PhD. Colloquium
- 1.0 credit in comprehensive examination
- 1.0 credit in dissertation proposal examination
- 4.0 credits in oral defence of thesis

Specific Requirements

Year 1

Fall term

ARCH 6001 [0.5]	Seminar: Vitruvian Exercises I
ARCH 6001 [0.5]	Workshop: Daedalic Exercises I
ARCH 6101 [1.0]	Colloquium I *

Winter term

ARCH 6002 [0.5]	Seminar II: Vitruvian Exercises II
ARCH 6002 [0.5]	Workshop: Daedalic Exercises II
ARCH 6101 [1.0]	Colloquium I *

Year 2

ARCH 6102 [1.0]	Colloquium II
ARCH 6907 [1.0]	Ph.D. Comprehensive Examination
ARCH 6908 [1.0]	Ph.D. Proposal Examination *

Year 3

ARCH 6909 [4.0]	Ph.D. Dissertation
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Note(s):

- * ARCH 6101 [1.0] Colloquium I, ARCH 6102 [1.0] Colloquium II, ARCH 6907 [1.0] Ph.D. Comprehensive Examination, ARCH 6908 [1.0] Ph.D. Proposal Examination are 1.0-credit courses and extend over two terms.

Graduate Diploma in Architectural Conservation

About the Program

The Diploma in Architectural Conservation builds on the strengths of the existing graduate programs at the Azrieli School of Architecture & Urbanism. This four-credit diploma is available to students registered in the graduate programs and to professionals in the field who seek to further develop their knowledge and skills in the theory and practice of architectural conservation.

Academic Regulations

See the General Regulations section of this Calendar, and in addition the following:

Architecture does not permit the C+ option (see Section 11.2 of the General Regulations).

Admission Requirements

Direct Entry

An admissions committee, which includes the Associate Director (Graduate School) and the Associate Director (Professional Graduate Studies) will determine the merits of each candidate on the basis of academic record, evidence of architectural imagination, and professional experience.

- BAS or equivalent degree in Architecture with an average of B+ or higher.
- Portfolio of representation
- Two confidential letters of reference
- Enrolment is limited
- Deferrals are not permitted
- Application Deadline: February 1

Admission from the Master of Architecture Professional Program or the Master of Architectural Studies

Students may apply to the Graduate Diploma in Architectural Conservation during the first year of study in the Master of Architecture Professional program or the Master of Architectural Studies program.

- Part-time studies are not permitted.
- Deferrals are not permitted.
- Enrolment is limited.

Program Requirements

Graduate Diploma in Architectural Conservation (4.0 credits)

Fall term

CDNS 5401 [0.5]	Heritage Conservation I: History, Principles, and Concepts	0.5
ARCH 4002 [0.5]	Canadian Architecture	0.5

ARCU 5402 [0.5]	Workshop: Urban Studies in Heritage Conservation	0.5
ARCH 4200 [0.5]	Architectural Conservation Philosophy and Ethics	0.5
Winter term		
CDNS 5402 [0.5]	Heritage Conservation II: Theory in Practice	0.5
ARCN 5100 [0.5]	Representation and Documentation in Architectural Conservation	0.5
ARCH 5402 [0.5]	Evaluation of Heritage Properties	0.5
ARCC 5401 [0.5]	Workshop: Technical Studies in Heritage Conservation	0.5
Total Credits		4.0

Architecture-MAS (ARCT) Courses

ARCT 5909 [2.0 credits]

M.A.S. Thesis

A scholarly written thesis supported by methods of two and three-dimensional representation. Research undertaken by the student is expected to engage a topic in the culture of practice in Architecture. Proposals must be approved by the graduate committee of the Azrieli School of Architecture and Urbanism. Urban (ARCU).

Architecture - Studio (ARCS) Courses

ARCS 5102 [1.5 credit]

M.Arch. 1 - Studio I

Sensory components of architecture: use, effect, and symbolic potential. Light, lighting, sound, sensation of heat and cold, and related phenomena studied in modest building proposals. Social considerations of architecture. The conventions of architectural drawing. Computer Modeling as a medium of architectural analysis, documentation, and presentation.

ARCS 5103 [1.5 credit]

M.Arch. 1 - Studio II

Building materials and practices within the context of increasingly complex building programs. Social context of architecture in relation to material expression. Modeling is stressed. (Core course).

ARCS 5104 [1.5 credit]

M.Arch. 1 - Studio III

A comprehensive studio dealing with issues of program and site as the culturally defining aspects of architectural practice within complex urban and social situations, using difficult sites and hybrid programs. Projects brought to a high degree of technical, formal, and graphic resolution. (Core Course).

ARCS 5105 [1.5 credit]

Graduate Studio 1

An architectural investigation within a contemporary urban setting, usually dealing with central-city sites and complex programs. Projects address the question of urban architecture both from practical and theoretical perspectives. Architecturally relevant building technology and systems will be introduced in the Studio as required.

ARCS 5106 [1.5 credit]

Graduate Studio 2

The design of a large-scale and culturally significant building project, set within a prominent urban or natural landscape. Integrated resolution of the combined issue of site, program, and expression is expected. Architecturally relevant building technology and systems will be introduced in the Studio as required. Prerequisite(s): ARCS 5105.

ARCS 5909 [2.0 credits]

Thesis - Independent Study

Student-initiated design investigation, developed with a thesis supervisor, supported by text and appropriate methods of two and three-dimensional representation. Proposals must be approved by the Graduate Committee of the Azrieli School of Architecture and Urbanism. M.A.S. Thesis (ARCT).

Architecture - Technical (ARCC) Courses

ARCC 5000 [0.5 credit]

Directed Studies in Architecture and Technology

Reading and research tutorials. Prerequisite(s): permission of the School.

ARCC 5001 [0.5 credit]

Introduction to Design and Multimedia

Multimedia and interactive design as they relate to architecture and the field of design. Special topics include virtual environments, user interface in software, Web and product design, perceptual and cognitive science, navigation, film/video and sound editing and animation technologies.

ARCC 5002 [0.5 credit]

Topics in Design and Multimedia: Information Architecture and the World Wide Web

Introduction to the design of Web-based applications, focusing on process, site architecture, usability testing, and Web functionality. Students synthesize and customize software applications. Client and server-side functionality. Introduction to relational database design, JavaScript, cgi scripts, and «middleware» products such as WebObjects and ColdFusion.

ARCC 5003 [0.5 credit]

Design and Technology Workshop

The prime objective of the workshop is to investigate issues in architectural design in relation to technology as a cultural paradigm. The workshop operates as a directed study with specific content, objectives, and scheduling arranged between student and academic advisor.

ARCC 5096 [0.5 credit]

Building Technology I

Case studies of vernacular buildings from different climatic regions: issues of human comfort, construction, and materials. Site orientation, foundations, structure and envelope in terms of their response to local climate: sun (light and heat), wind, moisture. Final projects developed in conjunction with design studio.

ARCC 5097 [0.5 credit]**Building Technology II**

Technical issues involved in architectural design of buildings from ancient times to the present. Technological innovation and materials related to structural developments, and the organization and design of structures. Basic concepts of equilibrium, and mechanics of materials. Final projects developed in conjunction with design studio.

ARCC 5098 [0.5 credit]**Building Technology III**

Wood frame, post and beam, steel and concrete systems and construction techniques. Structural systems and building envelope principles and practice are explored in conjunction with mechanical and electrical systems in small buildings. Final projects developed in conjunction with design studio.

ARCC 5099 [0.5 credit]**Building Technology IV**

Medium scale steel, concrete, and wood frame buildings as case studies to explore approaches to building science principles, building envelope design, advanced construction methods and materials, acoustics and sound control, and fire protection, with a focus on sustainable design strategies and environmental impact.

ARCC 5100 [0.5 credit]**Advanced Building Systems**

Introduction to advanced design in building technology and systems integration. Leading edge building materials, technologies and philosophies will be explored through intensive case study research and analysis, comparing, and critically evaluating, traditional methods with current computer modeling and analysis techniques.

ARCC 5200 [0.5 credit]**Professional Practice**

The practice of architecture. Professional organization and conduct, the architect's services, business law, office organization and management, contract documents, building codes, contract management, cost control, accounting and site supervision. Guest speakers and case studies.

Precludes additional credit for ARCU 4200.

ARCC 5401 [0.5 credit]**Workshop: Technical Studies in Heritage Conservation**

Prerequisite(s): permission of the School.

ARCC 5909 [2.0 credits]**M.Arch. Post-Professional Thesis (Design and Technology)**

Basic or applied research in architectural, industrial, and digital design. Areas include interactive education/training, product/interface design, programming/scripting, culture/technology, or research as defined by the student. Proposals must be approved by the Graduate Committee of the Azrieli School of Architecture and Urbanism. Final thesis documentation must satisfy the requirements established by the Faculty of Graduate Studies.

Architecture - Techniques (ARCN) Courses**ARCN 5000 [0.5 credit]****Directed Studies in Computer-Aided Design**

Reading and research tutorials.
Prerequisite(s): permission of the School.

ARCN 5001 [0.5 credit]**Directed Studies in Architecture and Morphology**

Reading and research tutorials.
Prerequisite(s): permission of the School.

ARCN 5005 [0.5 credit]**Theory and Practice of Architectural Representation**

Free-hand drawing as a way of observing and understanding the world. Various media and techniques introduced through a wide range of studio and outdoor exercises. (Theory/History Elective).

ARCN 5100 [0.5 credit]**Representation and Documentation in Architectural Conservation**

An in-depth study of the conventions and history of heritage recording including traditional field survey, photogrammetry, laser scanning technologies, and hybrid representations.
Workshop, six hours a week (including field trips and on-site work).

ARCN 5101 [0.5 credit]**Interactive Design Workshop I**

An intensive introduction to the design of interactive environments, using multimedia software including Adobe Photoshop, Illustrator, Premiere, Macromedia, Dreamweaver, Fireworks, Director, 3D Modeling programs, and sound editing. Basic design, graphic design, and software literacy. Presentations by design professionals.

ARCN 5102 [0.5 credit]**Interactive Design Workshop II**

An introduction to the logistic aspects of producing multimedia products with an emphasis on usability testing and user interface design. Topics include: storyboarding and graphic design, instructional design, rapid prototyping, project streaming, management and marketing, technical writing and product evaluation. Organized as a seminar. Work is done in teams.

ARCN 5301 [0.5 credit]**Workshop: Daedalic Exercises I**

Experimental mediation, materiality and making.

ARCN 5302 [0.5 credit]**Workshop: Daedalic Exercises II**

Innovative mediation, materiality and making.

ARCN 5909 [2.0 credits]**Thesis - Directed Research Studio (DRS)**

An intensive research-based design project. The unit is initiated and guided by a faculty member engaged in organized research. Proposals must be approved by the Graduate Committee of the Azrieli School of Architecture and Urbanism.

ARCH 6001 [0.5 credit]**Workshop: Daedalic Exercises I**

Experimental mediation, materiality and making. This course is required of all first year doctoral students in architecture.

ARCH 6002 [0.5 credit]**Workshop: Daedalic Exercises II**

Experimental mediation, materiality and making. This course is required of all first year doctoral students in architecture.

ARCH 6901 [0.5 credit]**Placement in Architecture**

An opportunity to earn academic credit by engaging in research activities under the supervision of a professional architect or researcher in architectural, government, non-governmental or other professional settings. Placement research must be related to the preparation of the doctoral research. Design Studios/Design Thesis/Research (ARCS).

Architecture - Theory/History (ARCH) Courses**ARCH 5000 [0.5 credit]****Directed Studies in History and Theory of Architecture**

Reading and research tutorials.

Prerequisite(s): permission of the School.

ARCH 5001 [0.5 credit]**Architecture Seminar 1**

An introduction to the intellectual frameworks connecting design and culture as manifest in theories of culture and architecture. The seminar builds on previous undergraduate studies, and is not an introduction to these fields. The field of inquiry is both historical and contemporary.

ARCH 5002 [0.5 credit]**Architecture Seminar II**

A continuation of ARCH 5001, this seminar follows the same general description, but concentrates more on architectural design, on the contemporary condition, and on the ways of thinking that characterize embodiment of cultural content in architecture and other artifacts.

Prerequisite(s): ARCH 5001.

ARCH 5003 [0.5 credit]**Design and Culture Workshop**

The prime objective of the workshop is to investigate cultural issues in architectural design. The workshop operates as a directed study with specific content, objectives, and scheduling arranged between student and academic advisor.

ARCH 5010 [0.5 credit]**History and Theory of Modern Architecture**

Architectural and urban ideals of modernism with emphasis upon the development of the avant-garde in the early twentieth century. The phenomenon of modern architecture within the broader framework of the development of western thought.

ARCH 5100 [0.5 credit]**Directed Studies in Architecture and Society**

Reading and research tutorials.

Prerequisite(s): permission of the School.

ARCH 5101 [1.0 credit]**Colloquium I**

This seminar brings together graduate students with architectural faculty to present their work-in-progress. It focuses on an immersion in conventions of theoretical and methodological approaches to advanced architectural research, including research ethics, proposal writing and research funding.

ARCH 5200 [0.5 credit]**Graduate Seminar 1: Introduction to Critical Thought in Architecture**

Critical theories and research approaches relevant to the field of architecture. Identification of issues through a coordinated series of lectures and readings. Development of analytical and interpretative skills through seminar discussions and writing culminating in a scholarly position paper by the student.

ARCH 5201 [0.5 credit]**Graduate Seminar 2: Contemporary Theoretical Perspectives in Architecture**

Lectures, readings, and case studies on contemporary issues in architecture and allied fields of study. Critical analysis of trends and possibilities set against traditional modes of architectural thought and practice. This course serves as a forum for a preliminary articulation of the thesis proposal.

Prerequisite(s): ARCH 5200.

ARCH 5301 [0.5 credit]**Seminar: Vitruvian Exercises I**

Investigation of the cunning and graphic intelligence of architects: i.e. architectural modes of research.

ARCH 5302 [0.5 credit]**Seminar II: Vitruvian Exercises II**

Seminar II builds upon the fall term with a focus on the study of the fabric of architectural theory stretched within the marble loom of construction. This course is required of all first year M.A.S. students.

ARCH 5402 [0.5 credit]**Evaluation of Heritage Properties**

The cultural, political, economic and legal factors that shape our definition of heritage architecture. Processes for and implications of heritage designation, cultural value and costs associated with restoration and ongoing preservation. (Theory/History Elective).

Lectures, three hours a week.

ARCH 5600 [0.5 credit]**Housing and Culture Seminar**

Housing as a function of social organization, demographics, market demand and governmental policies. The evolution of housing form, the role of the state, and the participation of architects in the housing marketplace promoting design as a form of social reform. Precludes additional credit for ARCH 4201.

ARCH 5909 [2.0 credits]**M.Arch. Post-Professional Thesis (Architecture and Cultural Diversity)**

A scholarly, written thesis supported by appropriate methods of two and three-dimensional representation. Research undertaken by the student is expected to engage one of the research topics outlined above. Proposals must be approved by the graduate committee of the Azrieli School of Architecture and Urbanism. Final thesis documentation must satisfy the requirements established by the Faculty of Graduate and Postdoctoral Affairs.

ARCH 6001 [0.5 credit]**Seminar: Vitruvian Exercises I**

Investigation of the cunning and graphic intelligence of architects: i.e. architectural modes of research. This course is required of all first year doctoral students in architecture.

ARCH 6002 [0.5 credit]**Seminar II: Vitruvian Exercises II**

Seminar II builds upon the fall term with a focus on the study of the fabric of architectural theory stretched within the marble loom of construction. This course is required of all first year doctoral students in architecture.

ARCH 6101 [1.0 credit]**Colloquium I**

This seminar brings together doctoral students with architectural faculty to present their work-in-progress. Immersion in conventions of theoretical and methodological approaches to advanced architectural research, including research ethics, proposal writing and research funding. This course is required of all first year doctoral students in architecture.

ARCH 6102 [1.0 credit]**Colloquium II**

This seminar continues to bring together doctoral students with architectural faculty and guest lecturers to present their work-in-progress. This course is required of all students enrolled in the Ph.D. program from the second year through until completion of the dissertation.

ARCH 6907 [1.0 credit]**Ph.D. Comprehensive Examination**

Students must demonstrate to their thesis advisory committees a sufficiently broad background in the theoretical and topical area literatures and constructions relevant to their individual projects.

ARCH 6908 [1.0 credit]**Ph.D. Proposal Examination**

Students must demonstrate to thesis advisory committees their ability to link theory to a work or practice of architecture. This examination requires the preparation of a drawing or a model, to then be discussed within a theoretical framework during the oral part of the exam.

ARCH 6909 [4.0 credits]**Ph.D. Dissertation**

The dissertation will be comprised of two critical modes of investigation of equal importance: a speculative project and a research text. The speculative project is realized using specific traditional and non-traditional media as deemed appropriate.

Architecture - Urban (ARCU) Courses**ARCU 5000 [0.5 credit]****Directed Studies in Architecture and the City**

Reading and research tutorials.

ARCU 5402 [0.5 credit]**Workshop: Urban Studies in Heritage Conservation**

Prerequisite(s): permission of the School.

Summer session: some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at central.carleton.ca

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at central.carleton.ca