Architectural Studies

The Azrieli School of Architecture and Urbanism cooperates with the School for Studies in Art and Culture in offering the B.A. Honours and B.A. General programs in History and Theory of Architecture (see the Art History program section of this Calendar for details).

Course Categories

Urbanism Core Electives

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<th>Course Code</th>
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<tbody>
<tr>
<td>ARCC 1202</td>
<td>History of Structures</td>
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<tr>
<td>ARCH 4105</td>
<td>Theories of Landscape Design</td>
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<tr>
<td>ARCH 4502</td>
<td>Research and Criticism</td>
</tr>
<tr>
<td>ARCU 3405</td>
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<td>ARCU 3902</td>
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<td>ARCU 4400</td>
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<td>ARCU 4808</td>
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<td>ARCU 4901</td>
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<tr>
<td>ARCN 4100</td>
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<tr>
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<td>Critical Nationalism</td>
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<tr>
<td>CDNS 3600</td>
<td>Cultural Politics and Identities in Canada</td>
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<tr>
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<td>Cultural Landscape and Cultural Identity in Canada</td>
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<tr>
<td>CIVE 2005</td>
<td>Architectural Technology 2</td>
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<tr>
<td>ENST 2001</td>
<td>Sustainable Futures: Environmental Challenges and Solutions</td>
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<td>GEOG 3021</td>
<td>Geographies of Culture and Identity</td>
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<td>GEOG 3023</td>
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<td>GEOG 4021</td>
<td>Seminar in Culture, Identity and Place</td>
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<td>GEOG 4023</td>
<td>Seminar in Special Topics on the City</td>
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<tr>
<td>GEOG 4304</td>
<td>Transportation Engineering and Planning</td>
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<td>Canadian Urban History</td>
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Conservation and Sustainability Core Electives

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<td>ARCC 2106</td>
<td>Introduction to Multimedia</td>
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<td>ARCC 2203</td>
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<td>ARCS 4107</td>
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<td>ARC 4100</td>
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<td>Design for Construction</td>
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<td>ARCH 4206</td>
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<td>CIVE 3203</td>
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<td>CIVE 3204</td>
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<td>CLCV 2305</td>
<td>Ancient Science and Technology</td>
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<td>ENVE 4106</td>
<td>Indoor Environmental Quality</td>
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<td>GEOG 2000</td>
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<td>GEOG 2300</td>
<td>Space, Place and Culture</td>
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<td>Geographies of Culture and Identity</td>
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<tr>
<td>MATH 1004</td>
<td>Calculus for Engineering or Physics</td>
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Program Requirements

Design

B.A.S. Honours (20.0 credits)

Requirements

1. 4.0 credits in:  ARCS 1005 [0.5] Drawing

2. 4.0 credits in:  ARCH 2300 [0.5] Intro. to Modern Architecture

3. 8.0 credits in:  ARCC 2202 [0.5] Architectural Technology 1

4. 2.0 credits in approved history/theory elective from approved list

5. 1.0 credit in a free elective

6. 1.0 credit in a workshop or free elective.

Total Credits 20.0

Note: in the first and second year of the B.A.S. Design program, studios must be taken in sequence. In the third and fourth years, studios may be taken out of sequence, with the permission of the CSPA.

Urbanism

B.A.S. Honours (20.0 credits)

A. Credits Included in the Major (15.0 credits)

1. 1.5 credits in:  ARCH 1000 [0.5] Intro. to Architecture

2. 10.5 credits in:  ARCC 2202 [0.5] Architectural Technology 1
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<tr>
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<td>ARCH 4201</td>
<td>History of Modern Housing</td>
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<tr>
<td>ARCU 3303</td>
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<td>ARCU 3304</td>
<td>Urbanism in Practice 2: Urbanism on the Periphery</td>
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<td>History of Theories of Urbanism</td>
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<td>Urbanism in Practice 4: Global Perspectives</td>
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<td>Post-WWII Urbanism</td>
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<td>People, Places and Environments</td>
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B. Credits Not Included in the Major (5.0 credits)

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<td>CIVE 2700</td>
<td>Civil Engineering Materials</td>
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<tr>
<td>CIVE 2200</td>
<td>Mechanics of Solids I</td>
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<td>ENVE 4105</td>
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<td>Heritage Conservation in Canada</td>
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<thead>
<tr>
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Total Credits 20.0

Note: no more than 1.5 credits in directed readings and/or the honours research project may be used to fulfill B.A.S. Conservation and Sustainability program requirements, except by permission of the School.

### Conservation and Sustainability

#### B.A.S. Honours (20.0 credits)

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<td>ARCC 1202 [0.5]</td>
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<td>ARCH 2300 [0.5]</td>
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<td>ARCH 4200 [0.5]</td>
<td>Architectural Conservation Philosophy and Ethics</td>
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<td>ARCC 2202 [0.5]</td>
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<td>ARCC 2203 [0.5]</td>
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<td>ARCC 3301 [1.0]</td>
<td>Conservation in Practice 1: Historical Analysis and Adaptive Re-use</td>
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<td>Building Pathology and Rehabilitation</td>
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#### B. Credits Not Included in the Major (5.5 credits)

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### Architecture - Studio (ARCS) Courses

#### ARCS 1005 [0.5 credit]

**Drawing**

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. (Core Course).

Prerequisite(s): registration in the B.A.S. program.

Six hours a week.

#### ARCS 1105 [1.0 credit]

**Studio 1**

Spatial and temporal experience of architecture through various drawings and modeling exercises. Observation of existing and imagination of possible architectural environments. On location at selected sites. (Core Course).

Prerequisite(s): registration in the B.A.S. program.

Studio eight hours a week.
ARCS 2105 [1.5 credit]  
Studio 2  
Development of cultural imagination within the field of architecture. Inhabitation and spatial definition are explored through analysis and design of small-scale environments. Representational skills developed, including the conventions of architectural drawing and modeling. (Core Course).  
Prerequisite(s): ARCS 1105.  
Twelve hours studio, plus one hour lecture per week.

ARCS 2106 [1.5 credit]  
Studio 3  
Small-scale building projects explore architectural design as a form of cultural expression. Consideration of site, program, and the materials of building as the means for shaping architecture. (Core Course).  
Prerequisite(s): ARCS 2105.  
Twelve hours studio, plus one hour lecture per week.

ARCS 3105 [1.5 credit]  
Studio 4  
Sensory components of architecture: their use, effect, and symbolic potential. Light and lighting, sound, the sensation of heat and cold, and related phenomena studied in modest building proposals. Social considerations of architecture. The conventions of architectural drawing. (Core Course).  
Prerequisite(s): ARCS 2106.  
Twelve hours studio, plus one hour lecture per week.

ARCS 3107 [1.0 credit]  
Studio 5  
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).  
Precludes additional credit for ARCS 3106 (no longer offered).  
Prerequisite(s): ARCS 2106.  
Eight hours studio, plus one hour lecture per week.

ARCS 4105 [1.5 credit]  
Studio 6  
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 formal and graphic resolution. (Core Course).  
Prerequisite(s): ARCS 3106 or ARCS 3107.  
Twelve hours studio, plus one hour lecture per week.

ARCS 4107 [1.0 credit]  
Studio 7  
The role of architecture in culture, stressing site and program with respect to their historic, social, and ecological implications. Synthesis of issues, methods and techniques of the undergraduate studio program. (Core Course).  
Precludes additional credit for ARCS 4106 (no longer offered).  
Prerequisite(s): ARCS 4105.  
Eight hours studio, plus one hour lecture per week.

Architecture - Technical (ARCC) Courses

ARCC 1202 [0.5 credit]  
History of Structures  
A survey of the history, theory, and science of structures pertaining to buildings and civic works. Structural systems, construction techniques, materials and details, and the cultural factors involved in the synthesis of traditional structural design.  
Prerequisite(s): registration in B.A.S. or B.Eng. Architectural Conservation and Sustainability.  
Lectures three hours a week, laboratory is block scheduled.

ARCC 1305 [0.5 credit]  
The Behaviour of Materials  
Introduction to organizational patterns, forms and properties of materials such as cohesion, elasticity, strain energy, work of fracture, crack stopping, and the general theory of strength; a survey of the metallic and non-metallic traditions, plastics, composites, and materials of the future. (Elective Course).  
Lectures three hours a week.

ARCC 2001 [0.5 credit]  
Structures in Architecture  
Survey of structural planning, including a historical survey of structural systems, details and the study of the factors involved in the synthesis of a suitable structural scheme. The course is intended as a survey of the science and the structural properties of materials. (Elective Course).  
Precludes additional credit for ARCC 1103.  
Lectures three hours a week, laboratory is block scheduled.

ARCC 2202 [0.5 credit]  
Architectural Technology 1  
General introduction to materials and methods of construction with focus on wood and timber frame construction. Site conditions, foundations, structure and envelope design in terms of their response to local climate: sun (light and heat) wind, moisture. (Core course).  
Prerequisite(s): permission of the School.  
Lectures three hours a week.
ARCC 2203 [0.5 credit]
Architectural Technology 3
Wood frame, post and beam, steel and concrete systems and construction techniques. Structural systems and building envelope principles and practise are explored in conjunction with mechanical and electrical systems in smaller buildings. Emphasis on precedent, tradition and methodology of architectural detailing for construction. Prerequisite(s): ARCC 2202 and third-year standing for B.A.S. students, or ECOR 1101 and second-year standing for students in B.Eng. Architectural Conservation and Sustainability. Lectures three hours a week.

ARCC 3004 [0.5 credit]
Workshop: Energy and Form
Relationship between environmental factors, energy and architectural form. Ways in which buildings and building elements can be planned and designed to take advantage of natural cycles in order to minimize the need for supportive energy inputs. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.

ARCC 3202 [0.5 credit]
Architectural Technology 4
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. Focus on sustainable design strategies and environment impact. (Core course). Prerequisite(s): ARCC 2203 and fourth-year standing for B.A.S. students or ARCC 2203 and third-year standing for students in B.Eng. Architectural Conservation. Lectures three hours a week.

ARCC 3301 [1.0 credit]
Conservation in Practice 1: Historical Analysis and Adaptive Re-use
Historical building projects exploring architecture as a form of cultural expression. Consideration of site, program and materials. Introduction of conservation, sustainability and adaptive re-use principles, development standards, architectural codes, using case studies in Ottawa and elsewhere. Physical, digital drawings and models to explore designs. Prerequisite(s): CDNS 2400, ARCC 3501 and third-year standing in BAS (Conservation and Sustainability) or permission of the School. Lecture and workshop eight hours a week.

ARCC 3302 [1.0 credit]
Conservation in Practice 2
The role of architecture in culture, stressing site and program with respect to their historic, social and ecological implications. Synthesis of issues, methods and techniques of the conservation and sustainability curriculum. (Core course). Prerequisite(s): ARCC 3301 or permission of the School. Lecture and workshop eight hours a week.

ARCC 3305 [0.5 credit]
Materials Application
Application of building materials, including the forming of building parts and the design of joints for performance and assembly. Practical constructions using new technology are emphasized. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.

ARCC 3501 [0.5 credit]
Fundamentals of Conservation and Sustainability
The question of historical and cultural value is explored through readings and discussions. Methodology is examined and tested through design exercises and historical research practices on heritage properties. Prerequisite(s): second year standing in B.A.S. Conservation and Sustainability, or permission of the school. Lecture three hours a week.

ARCC 3901 [0.5 credit]
Architectural Technology
A specific aspect of architecture in the area of architectural technology. Offerings vary from year to year. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.

ARCC 4100 [0.5 credit]
Lighting for Architecture
A study of daylighting and/or lighting design techniques, with a focus on project-based learning. (Workshop). Prerequisite(s): ARCC 2203 or permission of the School. Lecture, seminar, workshop or field work six hours a week.

ARCC 4102 [0.5 credit]
Acoustics in Architecture
Sound in enclosures, including interior design of auditoria and special applications. Sound reproduction and reinforcement systems. Acoustic privacy and protection, sound control in buildings, materials for noise control, community noise, industrial noise. Acoustic measurements and instrumentation. (Elective Course). Precludes additional credit for ARCC 3002. Lectures two hours, laboratory two hours a week.

ARCC 4103 [0.5 credit]
Energy and Form
Energy as a criterion in decision-making for architectural design. Conventional energy resources and state-of-the-art alternative energy resource systems with respect to building shape, size, materials, openings, orientation, siting, and use. (Elective Course). Precludes additional credit for ARCC 3003. Lectures three hours a week.
ARCC 4200 [0.5 credit]
Structural Morphology
Interdisciplinary study of structural and developmental morphology focusing on dynamic generative design processes, integrative systems, spatial modulations and fundamental generative principles of spatial form and structure as it relates to architecture. (Workshop).
Lectures, seminar, workshop or field work six hours a week.

ARCC 4202 [0.5 credit]
Wood Engineering
Prerequisite(s): fourth-year registration or permission of the School.
Lectures three hours a week, problem analysis three hours alternate weeks.

ARCC 4207 [0.5 credit]
Advanced Building Assessment
An in-depth study of the conventions, methods, and tools used in the assessment of buildings and their sites including traditional field survey, photogrammetry, laser scanning technologies, and hybrid representations. Precludes additional credit for ARCC 4900.
Prerequisite(s): enrolment in the BAS Conservation and Sustainability program and fourth-year standing.
Laboratories, lectures, field trips, six hours a week.

ARCC 4208 [0.5 credit]
Workshop: Structure and Form
Study of structural nature of non-conventional space enclosure systems like cable structures, membranes, shells, submerged structures, excavated structural forms and lunar structures. (Workshop).
Prerequisite(s): ARCC 4200 or permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCC 4300 [0.5 credit]
Building Materials
Contemporary and traditional construction techniques and materiality are discussed within the framework of current practices, with emphasis on the analysis of material properties, structure and sustained performance, as well as their contribution to the adaptive reuse of existing and/or historical building. (Elective Course).
Precludes additional credit for ARCC 3300.
Laboratories, lectures, field trips four hours a week.

ARCC 4301 [1.5 credit]
Conservation in Practice 3
Issues of program and site as the culturally defining aspects of sustainable architectural practice within complex urban and social situations, using difficult sites, historically significant buildings and/or locations and hybrid programs, projects brought to a high degree of formal and graphic resolution. (Core course).
Prerequisite(s): ARCC 3302 or permission of the School.
Twelve hours studio, plus one hour lecture per week.

ARCC 4400 [0.5 credit]
Design for Construction
Design in relation to materials and building construction including the effects of building codes, zoning bylaws, approvals, processes and legislation, the organization of the building industry, and cost estimating control. (Elective Course).
Prerequisite(s): ARCC 3300 or permission of the School.
Lectures, seminars, field work three hours a week.

ARCC 4500 [0.5 credit]
Design Economics
Precludes additional credit for ARCC 3500.
Prerequisite(s): fourth-year standing in the B.A.S. program or permission of the School or third-year standing in the B.Eng Architectural Conservation and Sustainability program.
Three hours a week.

ARCC 4801 [0.5 credit]
Architectural Technology
A specific aspect of architecture in the area of architectural technology. Topics vary from year to year. (Elective Course).
Prerequisite(s): permission of the School.

ARCC 4808 [0.5 credit]
Independent Study
(Elective Course).

ARCC 4900 [0.5 credit]
Directed Reading
Supervised readings and research projects. Guidelines must be obtained from BAS Academic Advisors prior to registration.
Precludes additional credit for ARCC 4207.
Prerequisite(s): fourth-year standing in BAS (Conservation and Sustainability).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCC 4909</td>
<td>1.0</td>
<td>Honours Project</td>
<td>Students propose a topic of study in Conservation &amp; Sustainability for approval and produce a substantial research project, supervised by BAS faculty. (Core Course). Prerequisite(s): fourth-year standing in BAS (Conservation and Sustainability).</td>
</tr>
<tr>
<td>ARCN 2105</td>
<td>0.5</td>
<td>Computer Modeling of Form</td>
<td>Computer modeling as a medium of architectural analysis, documentation, and presentation. Principles and techniques of 2D drawing and 3D modeling. Extensive practical work using appropriate applications. (Core Course). Precludes additional credit for ARCN 1101. Prerequisite(s): second-year B.A.S. standing or permission of the School. Lectures three hours a week.</td>
</tr>
<tr>
<td>ARCN 2106</td>
<td>0.5</td>
<td>Introduction to Multimedia</td>
<td>Analogue and digital systems and graphic processes used in the making of images. Fundamentals of still photography and videography combined with current computer technologies in the application of visual communication techniques. Precludes additional credit for IDES 2106. Lectures three hours a week, laboratory three hours a week.</td>
</tr>
<tr>
<td>ARCN 3003</td>
<td>0.5</td>
<td>Theatre Production</td>
<td>Design and fabrication of theatre productions, one of which is staged on campus. Visiting directors, designers, technical consultants and others. Visits to theatres and production facilities. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.</td>
</tr>
<tr>
<td>ARNC 3206</td>
<td>0.5</td>
<td>Computer Applications</td>
<td>Application of existing software and programming techniques to various architectural problems. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.</td>
</tr>
<tr>
<td>ARCN 3302</td>
<td>0.5</td>
<td>The Anatomy of Architecture</td>
<td>The architectural anatomy of selected contemporary buildings. Use of graphic techniques of analysis to develop an understanding of their basic compositional principles and language. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.</td>
</tr>
<tr>
<td>ARCN 3303</td>
<td>0.5</td>
<td>Architecture as Painting</td>
<td>Analysis of architecture for its elemental, formal and narrative properties. These relationships through the medium of painting. Architecture as analogy to painting. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.</td>
</tr>
<tr>
<td>ARCN 3400</td>
<td>0.5</td>
<td>Visual Design</td>
<td>Development of the capacity to visualize and communicate in several graphic media. Development of sensitivity to form, structure, space, texture and colour. May involve historical investigation. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.</td>
</tr>
<tr>
<td>ARCN 3401</td>
<td>0.5</td>
<td>Photography</td>
<td>Traditional and alternative techniques for image making and manipulation. Basic image formation techniques, advanced darkroom manipulations, past-darkroom imaging, and digital imaging within a theoretical overview of current photographic processes and techniques. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.</td>
</tr>
<tr>
<td>ARCN 3901</td>
<td>0.5</td>
<td>Architectural Techniques</td>
<td>A specific aspect of architecture in the area of architectural techniques. Topics vary from year to year. (Elective Course). Prerequisite(s): permission of the School.</td>
</tr>
<tr>
<td>ARCN 3902</td>
<td>0.5</td>
<td>Architectural Techniques</td>
<td>A specific aspect of architecture in the area of architectural techniques and cooperative problem solving. Topics vary from year to year. (Workshop). Prerequisite(s): permission of the School. Lecture, seminar, lab or field work six hours a week.</td>
</tr>
<tr>
<td>ARCN 3999</td>
<td>0.0</td>
<td>Co-operative Work Term</td>
<td></td>
</tr>
</tbody>
</table>
ARCN 4100 [0.5 credit]
Historic Site Recording and Assessment
Methods of heritage building documentation including hand recording, photography, rectified photography, total station, GPS, photogrammetry, and laser scanning. Non-destructive testing techniques; environmental assessment tools for determining air quality and energy efficiency. Multidisciplinary teams for all project work.
Also listed as CIVE 3207.
Precludes additional credit for ARCN 3100 (no longer offered).
Prerequisite(s): second-year standing in B.A.S. Conservation and Sustainability or third-year standing in B.Eng. in Architectural Conservation and Sustainability.
Lectures three hours a week, lab or field work two hours a week.

ARCN 4102 [0.5 credit]
Problems in Computing
Various types of non-numeric data, their representation within primary and secondary storage, and the manipulation of various representations. Comparative evaluation of languages for non-numeric problems. (Elective Course).
Precludes additional credit for ARCN 3102.
Prerequisite(s): permission of the School.
Lectures two hours a week, laboratory two hours a week.

ARCN 4103 [0.5 credit]
Digital Fabrication and Theory
The changing relationship of architectural design and digital technology with a focus on 1:1 constructions using emerging computational software and fabrication techniques. (Workshop/Elective Course).
Prerequisite(s): permission of the School.
Lectures two hours a week, laboratory two hours a week.

ARCN 4200 [0.5 credit]
Building Pathology and Rehabilitation
Deterioration mechanisms for concrete, timber, steel and masonry structures. Identification of design deficiencies; criteria for selection and design of rehabilitation systems. Design techniques to reduce deterioration in new construction and historical structures.
Also listed as CIVE 4601.
Prerequisite(s): third-year standing in B.A.S. Conservation and Sustainability or fourth-year status in B.Eng. Architectural Conservation and Sustainability program.
Lectures three hours a week, lab/field work two hours a week.

ARCN 4808 [0.5 credit]
Independent Study
( Elective Course).

Architecture - Theory/History (ARCH) Courses

ARCH 1000 [0.5 credit]
Intro. to Architecture
Architecture in the matrix of human conditions: linkages among architecture, fine arts, humanities, social sciences, physical sciences, mathematics and philosophy. Architectural ideas will be introduced through a discussion of cities, buildings and landscapes. (Core Course).
Lectures three hours a week.

ARCH 1005 [0.5 credit]
Contemporary Society
The relationship of architecture, architectural thought and the architectural profession to the societies in which they exist (and which they must serve). Topics are selected to emphasize key issues. (Elective Course).
Lectures and seminars, three hours a week.

ARCH 2006 [0.5 credit]
The History and Theory of Industrial Design
Theoretical overview including: definitions and dimensions of design and industrial design, its nature and historical evolution; quality; quality aspects in synthetic objects; formal qualities as determinants for categories of design; design methods; design management in industry; professional industrial design and its promotion. Practicing industrial designers are invited to present case studies of their activities. (Elective Course).
Also listed as IDES 1000.
Lectures three hours a week.

ARCH 2101 [0.5 credit]
Industrial Design Analysis
Analysis of various industrial design problems, including: relationship with principal techniques and mass-production technology; uniformity and variety; specialty and versatility in production; tolerances; ergonomics and anthropometrics; industrial design and environment; future industrial design approaches to pollution and resource conservation; adaptation of value-analyses to industrial design. (Elective Course).
Also listed as IDES 1001.
Prerequisite(s): ARCH 2006 or IDES 1000.
Lectures three hours a week.

ARCH 2300 [0.5 credit]
Intro. to 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. (Core Course).
Precludes additional credit for ARCH 3009.
Prerequisite(s): BAS students require ARTH 1100 and ARTH 1101 or permission of the School. B.Eng. Architectural Conservation and Sustainability students require ARCC 1202.
Lectures three hours a week.
ARCH 3208 [0.5 credit]
Urban Space Architecture
Design explorations that are directed towards the search for aesthetic form and meaning in urban space, with particular application to the Canadian context. Project-oriented. (Workshop).
Prerequisite(s): permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCH 3902 [0.5 credit]
Theory of Architecture
Workshop focuses on one specific aspect of architecture in the area of theory and history. Workshop offerings change from year to year. (Workshop).
Prerequisite(s): permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCH 4002 [0.5 credit]
Canadian Architecture
Canadian architecture from the seventeenth century to the present day, covering both stylistic and technological developments. Building styles, methods, and materials in the context of social and economic conditions and construction techniques. (Theory/History Elective).
Also listed as ARTH 3002.
Precludes additional credit for ARCH 3002.
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures, seminars three hours a week.

ARCH 4004 [0.5 credit]
Architectural Theory
An exploration of architectural intentions in the early period of Western history, with special emphasis on Renaissance treatises and ideas. Architectural intentions in relation to shifting world-views, as a basis of historical interpretation. (Theory/History Elective).
Precludes additional credit for ARCH 3007.
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4006 [0.5 credit]
Origins of Modernism
Exploration of architectural theories with special emphasis on the European context from the seventeenth century to the late nineteenth century. (Theory/History Elective).
Precludes additional credit for ARCH 3008.
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4008 [0.5 credit]
Foundations of Modernism
Major critical perspectives as applied to architecture as a fine art. The debate between classicism and romanticism with consideration of its cultural roots. (Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4009 [0.5 credit]
Theory of the Avant-Garde
Exploration of architectural theories with special emphasis on the development of the avant-garde in the early twentieth century, looking at the avant-garde within the larger framework of modernism. (Theory/History Elective).
Precludes additional credit for ARCH 3009.
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4105 [0.5 credit]
Theories of Landscape Design
Introduction to landscape architecture as the organization of outdoor space. Historical, cultural, economic and political factors as a basis for interpreting spatial organization in urban and rural areas of human settlement. Emphasis on the period from the fifteenth to the nineteenth century. (Theory/History Elective).
Precludes additional credit for ARCH 3105.
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4200 [0.5 credit]
Architectural Conservation Philosophy and Ethics
Analysis of philosophical theories and related approaches to the material transformation of buildings. Micro-histories in architectural conservation theory and practice; overview of historical and contemporary concepts in architectural conservation. Preservation, restoration, rehabilitation, reconstruction, adaptive re-use, conservation anamnesis, diagnosis.
Precludes additional credit for ARCH 3100 (no longer offered).
Prerequisite(s): third-year standing B.A.S. or third-year status in B.Eng. (Architectural Conservation and Sustainability).
Lectures three hours a week.

ARCH 4201 [0.5 credit]
History of Modern Housing
Study of housing as a function of social organization, demographics, market demand and public policy. Topics include the evolution of housing form, the role of the state, and the participation of architects in the housing marketplace in the 19th and 20th century. (Theory/History Elective).
Prerequisite(s): third-year standing in the B.A.S. program or permission of the School.
Lectures three hours a week.
ARCH 4204 [0.5 credit]
The Design Professions
Architecture and design professions in relation to
traditional professions and to occupations in art and
design. Professions in the development of culture and
society; education, career and work; knowledge in the
design professions; and the nature of design practice.
(Elective Course).
Also listed as SOCI 4204.
Prerequisite(s): third-year standing in the B.A.S. program;
forth-year standing in Sociology; fourth-year standing
in the B.A. Honours Architecture/Art History program; or
permission of the School.
Seminar three hours a week.

ARCH 4205 [0.5 credit]
User-Building Synopsis
Projects to develop skills in the analysis of building
performance. Examination of occupancy analysis, safety
and risk assessment, post-occupancy evaluation, and
social impact assessment. (Workshop).
Prerequisite(s): permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCH 4206 [0.5 credit]
Recycling Architecture in Canada and Abroad
Concepts of mediating old and new architecture at the
scale of the city through to the detail of the construction
joint. Issues in sustainability and cultural identity
illuminated by recycled architecture and adaptive reuse
are explored through readings, drawings and case studies.
(Theory/History Elective).
Prerequisite(s): third-year standing in the B.A.S. program
or by permission of the instructor or fourth-year standing
in the B.Eng. Architectural Conservation and Sustainability
program.
Lectures three hours a week.

ARCH 4300 [0.5 credit]
Neo-Classical Architecture
18th- and 19th-century architecture and urban form
in Western Europe. Emphasis on the cultural and
philosophical framework of rising modernity to illuminate
architectural production and theory as well as the
development of urban form. (Theory/History Elective).
Prerequisite(s): ARCH 1201 and ARCH
2200.
Lectures three hours a week.

ARCH 4301 [0.5 credit]
Post-War Architecture
Theoretical, ideological and artistic debates that have
influenced the development of world architecture since
1950. (Theory/History Elective).
Also listed as ARTH 4604.
Prerequisite(s): ARCH 2300 or ARTH 3609 or permission
of the instructor.
Lecture or seminar three hours per week.

ARCH 4302 [0.5 credit]
Pre-Columbian Architecture
Monumental temples of the ancient Mesoamericans are
compared with other world traditions at similar levels of
cultural development. Selected examples considered in
terms of morphology, technology, iconography, social/
political context, world view and general architectural
theory. (Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4303 [0.5 credit]
Greek Architecture
Architecture of Greek antiquity and its relationship to
its philosophical, artistic, and mythical contexts. The
development of the idea of the city; the presence of
architecture within its symbolic landscape. (Theory/History
Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4304 [0.5 credit]
The Architecture of Rome
Rome in its classical to late-antique periods. Its founding
mythologies and landscape. In-depth analysis of Rome,
with special attention to its public buildings. Early Christian
architecture within the Roman context. (Theory/History
Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4305 [0.5 credit]
Medieval Architecture
Gothic architecture and its relation to its philosophic and
artistic predecessors. Special attention to the coexistence
of the monastic tradition, late Romanesque building, and
new experiments in gothic during this period, marked by
intellectual and political ferment. (Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4306 [0.5 credit]
Renaissance Theory
The rise of architectural theory within the context of
the Italian Renaissance. Canonic texts explored and
compared in the context of the architectural developments
of the period. (Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4307 [0.5 credit]
Muslim Architecture
Historical and theoretical discussions about the
architecture of Muslim cultures. Selected sites and
monuments from eighth to eighteenth century, covering
the vast geography from North Africa to Southeast Asia.
(Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.
ARCH 4308 [0.5 credit]
Asian Architecture
Anthropological history of the architecture of the Near and Far East. The architecture and urban form of Ancient Egypt, Anatolia, Sumer and Persia; ancient China and India. (Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4309 [0.5 credit]
Mesoamerican Architecture
Selected works of Mesoamerican architecture in terms of iconography, morphology, technology, function, historical development, and concept. Mesoamerican architectural features compared with other world traditions. Emphasis on design. (Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4400 [0.5 credit]
Theory
A survey of the architectural and urban history of a specific culture. These discussions address the present reality of a country, region or city being visited by the fourth year of the program. (Elective Course).
Prerequisite(s): clear standing to fourth year and permission of the School.
Lectures three hours a week.

ARCH 4502 [0.5 credit]
Research and Criticism
Preparation for the independent research and design work. Work related to the nature of research and criticism in architecture, with emphasis on current issues. (Theory/History Elective).
Lectures and seminars three hours a week.

ARCH 4505 [0.5 credit]
Seminar in Theory and History
History and theory of architecture. Topics will vary from year to year. Limited enrolment. (Elective Course).
Prerequisite(s): fourth-year standing in the B.A.S. or B.A. (Honours) Architecture/Art History programs, or permission of the School.
Lectures three hours a week.

ARCH 4801 [0.5 credit]
Theory of Architecture
An aspect of architecture in the area of theory and history. Topics vary from year to year. (Theory/History Elective).
Prerequisite(s): ARCH 2300 or permission of the School.
Lectures three hours a week.

ARCH 4808 [0.5 credit]
Independent Study
(Elective Course).

ARCH 4900 [0.5 credit]
Directed Reading
Supervised readings and research projects. Guidelines must be obtained from BAS Academic Advisors prior to registration. (Core course).
Prerequisite(s): fourth-year standing in B.A.S (Philosophy and Criticism).

ARCH 4909 [1.0 credit]
Honours Project
Students propose a topic of study in Philosophy and Criticism for approval and produce a substantial research project, supervised by BAS faculty. (Core course).
Prerequisite(s): fourth-year standing in B.A.S (Philosophy and Criticism).

Architecture - Urban (ARCU) Courses

ARCU 3100 [0.5 credit]
The Morphology of the City
Primary structural, spatial and formal organization and elements that characterize the morphology of cities; historical and contemporary significance for architecture and urban design. (Core).
Precludes additional credit for ARCH 2004, ARCH 4100, and ARCU 4100.
Prerequisite(s): permission of the School of Architecture.
Lectures three hours a week.

ARCU 3203 [0.5 credit]
Landscape Architecture
Practical significance of landscape elements as they relate to built-form by integrating structure and site. (Workshop).
Prerequisite(s): permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCU 3303 [1.0 credit]
Urbanism in Practice 1: Urbanism in the Core
Intensification, revitalization, gentrification, brownfield redevelopment, sustainability, development standards, form-based codes, and the larger impact of migration on urban density. Through design, students explore the ramifications of practices, policies, pressures, processes and cultural preferences on the evolving form and function of the urban core.
Precludes additional credit for ARCU 3102 and ARCU 3301 (no longer offered).
Prerequisite(s): ARCN 2105, ARCU 3405 or ARCU 3501, and third-year standing in BAS (Urbanism) or permission of the School.
Lecture and workshop eight hours per week.
ARCU 3304 [1.0 credit]
Urbanism in Practice 2: Urbanism on the Periphery
Urbanization, sprawl, growth models, land consumption, containment strategies (smart growth, greenbelts, growth boundaries), edge cities, the Just City, Ecological Urbanism, and informal suburbanization in developed and developing countries. Through design, students explore the impact of practices, pressures, processes and cultural preferences on the expanding city.
Precludes additional credit for ARCU 3101 and ARCU 3302 (no longer offered).
Prerequisite(s): ARCN 2105, ARCU 3303 and third-year standing in BAS (Urbanism) or permission of the School.
Lecture and workshop eight hours per week.

ARCU 3405 [0.5 credit]
Urban Design
Project-based workshop investigating current design attitudes and solutions affecting the physical morphology of cities. Formally sophisticated urban design projects. Various procedures and basic urban design ideas. (Workshop).
Prerequisite(s): permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCU 3409 [0.5 credit]
City Organization and Planning Processes
Interdisciplinary investigation, analysis and synthesis of the institutions, processes, environments and demography of Canadian cities. Guest lecturers. (Workshop).
Prerequisite(s): permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCU 3501 [0.5 credit]
Fundamentals of Urbanism
Through readings, discussions and projects, students will examine a number of the forces that produce the built environment and explore a variety of approaches to documenting, representing, analyzing, organizing and controlling the growth, shape, density, and mix of uses associated with cities.
Prerequisite(s): second year standing in the BAS – Urbanism Major, or permission of instructor.
Lecture three hours a week.

ARCU 3902 [0.5 credit]
Urban Studies
A specific aspect of architecture in the area of urban studies. Topics vary from year to year. (Workshop).
Prerequisite(s): permission of the School.
Lecture, seminar, lab or field work six hours a week.

ARCU 4300 [0.5 credit]
History of Theories of Urbanism
Theories of urbanism throughout history; emphasis on schools of post-WWII academic thought. The impact of Marxist theory, location and systems theory; the expanding array of models, tools and techniques that have contributed to various theorizations of urbanism.
Prerequisite(s): ARCU 3100.

ARCU 4303 [1.5 credit]
Urbanism in Practice 3: Housing
Housing as it affects urban form. The design of multi-unit housing in a variety of forms and for a range of demographic groups. After thorough research of applicable codes and bylaws, students engage the design of housing at the site, building and detail level.
Prerequisite(s): ARCU 3303 and ARCU 3304 and fourth-year standing in B.A.S. Urbanism or permission of the School.
Studio twelve hours a week and one hour lecture.

ARCU 4304 [1.0 credit]
Urbanism in Practice 4: Global Perspectives
Urbanization as a global phenomenon. Study of various forms of urbanization and de-urbanization in relation to economic, political and cultural forces. Through design, students explore the (trans)formation of settlements and communities outside of the North American context.
Precludes additional credit for ARCU 4909.
Prerequisite(s): ARCU 3303 and ARCU 3304 and fourth-year standing in B.A.S. Urbanism or permission of the School.
Lecture and workshop eight hours per week.

ARCU 4400 [0.5 credit]
City Organization and Planning
Structure, form and functioning of cities. Infra-structure, facilities and networks, ecosystems, demographic and social organization, government, quality of life, goals and perceptions, urban management, development, regulation and codes, design, planning and policy-making. (Elective Course).
Precludes additional credit for ARCU 3400.
Three hours a week.

ARCU 4500 [0.5 credit]
Human Shelter
Background factors pertaining to housing in both industrial and developing countries; traditional and contemporary housing approaches; social housing; and people's right to adequate housing. Guest lecturers. (Elective Course).
Precludes additional credit for ARCU 3500.
Three hours a week.

ARCU 4600 [0.5 credit]
Post-WWII Urbanism
Urban renewal in the post-war period in response to housing shortages, suburbanization, transportation infrastructure and other factors. Gentrification and the emerging form of the post-industrial city, including new urbanism and sustainable communities. Case studies from Canada, Europe and the U.S. (Theory/History Elective).
Prerequisite(s): fourth-year standing in the B.A.S. program or permission of the School.
Lectures three hours a week.
ARCU 4700 [0.5 credit]
Urban Utopias
Prerequisite(s): ARCU 4600.

ARCU 4801 [0.5 credit]
Selected Topics in Urbanism
Advanced seminar in selected topics related to urbanism. Topics may include Dutch planning and housing, New Urbanism, public housing, suburbanization, real estate development, Title I urban renewal, post-unification Berlin. (Core course).
Prerequisite(s): third-year standing in B.A.S. (Urbanism).
Lecture three hours per week.

ARCU 4808 [0.5 credit]
Independent Study
(Elective Course).

ARCU 4901 [0.5 credit]
Topics in Applied Urbanism
Advanced investigation into issues related to urbanism and urban form. Topics will vary from year to year.
Prerequisite(s): fourth-year standing in B.A.S. (Urbanism) or permission of Instructor.
Lecture three hours per week.

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