Program Comparison Chart

In order to assist us in the evaluation of your previous architectural studies, please complete the form below by providing us, to the best of your knowledge, with your equivalent uni course title and calendar description. Please include a copy of your university course calendar.

Year of Program	Credit Weight	McGill University		Year of Program	Credit Weight	Your University (Put name here)	
	100	**B.Sc.(Arch.) Program**				Program	
		Course Title	Calendar Description			Course Title	Calendar Description
		Required Architecture Courses:					
		Design studio courses:					
1F	6	ARCH201 Communication, Behaviour & Architecture	Introduction to design; development of design judgement and communication skills in a series of exercises addressing light, scale, space, form and colour in the built environment; introduction to techniques of oral and graphic presentation, including model making, photography, sketching and architectural drawing. The course is based in the studio and includes lectures, seminars and field trips.				
1W	6	ARCH202 Arch. Graphics & Elements of Design.	Introduction to architectural design; consideration of building form in relation to program, structural system, material selection, site and climate; further development of skills in model making, conventional architectural drawing, axonometric and perspective drawing, sketching and architectural rendering. The course is based in the studio and includes lectures, seminars and field trips.				
2F	6	ARCH303 Design & Construction 1	An exploration of the design of buildings. Projects emphasize the major social, technological, environmental, and symbolic aspects of the design process. Introduction to specific modelling, presentation, and documentation techniques. Discussions, readings, field trips and practical exercises.				
2W	6	ARCH304 Design & Construction 2	Continuation of Design and Construction I with projects of increasing complexity. Projects deal with particular aspects of architectural design and/or explore approaches to design methodology. Discussions, readings, field trips and practical exercises.				

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3F	6	ARCH405 Design & Construction 3	A structured investigation of architectural concepts; program interpretation with respect to relevant cultural, social and environmental contexts; applications of appropriate formal languages and building technologies in integrated proposals for a variety of building forms.				
3W	6	ARCH406 Design & Consruction 4	A detailed study and comprehensive development of architectural proposals for complex building types and site conditions; the exploration of coherent initial concepts with respect to programmatic requirements, image and form; subsequent elaboration leading to meaningful and technologically viable designs for the built environment.				

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		Architectural History courses:					
1F	3	ARCH250 Architectural History 1	The study of architecture and cities from ancient times to 1750.				
1W	3	ARCH251 Architectural History 2	The study of North American architecture and cities from 1950 to the present.				
2F	3	ARCH 354 Architectural History 3	The study of Modern European architecture from 1750 to 1950.				
2W	3	ARCH 355 Architectural History 4	The study of cities and world architecture from 1900 to the present.				
		Drawing courses:					
1F	2	ARCH221 Architectural Drawing	Strategies for visualization and representation based on perspective, orthographic and oblique projection; drawing in the design process; relationship of drawing type to design intention; freehand drawing and sketching; architectural survey and notebook recording. Students work in the studio and in the field in a range of media.				
3 F	2	ARCH325 Architectural Sketching	Seven days of supervised field sketching in selected locations outside Montreal. The course develops traditional skills in architectural sketching in pencil, ink and watercolour. Sketching is explored as a process that frames the student's encounter with the environment and as a strategy for acquiring knowledge and understanding of the world.				
		Technical courses:					
1F	3	ARCH 241 Architectural Structures	Introduction to the basic concepts and forms of structures in architecture.				

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1W	3	ARCH240 Organization of Materials in Buildings	The characteristics of basic building materials; wood, steel masonry and concrete. How building materials are shaped into building components, and how these components are integrated into the building envelope. Problems, laboratory projects and field trips to illustrate principles.				
2F	3	ARCH 342 Digital Representation	This course introduces students to digital representation in architecture. Students explore the state-of-art two- and-three-dimensional computer-modelling software in architectural design.				
2F	2	ARCH375 Landscape	Land form, plant life, microclimate; land use and land preservation; elements and methods of landscape design.				

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2W	2	ARCH 377 Energy, Environment and Buildings	Exploration of the interrelationship between energy, environment and building. Topics include sustainability, assessment tools, the integrated design process, water conservation, energy conservation, renewable energy, materials and embodied energy, indoor environmental quality, environmental acoustics, and advanced building technology.				
3F	2	ARCH447 Lighting	Concepts of natural and artificial lighting in architecture and urban design.				
3F	3	ARCH 512 Architectural Modelling	Architectural modelling using advanced applications in digital media. Topics include: 3-D modelling and rendering; image editing; digital animation; hypertext and the World Wide Web; issues of representation and methodology; comparison of publishing applications. Projects complement design studio courses and independent studies that are student or instructor initiated.				
3W	2	ARCH451 Building Regulations & Safety	The study of building codes with specific emphasis on the National Building and National Fire Codes of Canada. Examples of existing buildings with assignments to illustrate regulations. Development of a systematic approach to the implementation of codes during the preliminary design stage of an architectural project.				
		Required Non-Departmental Courses:					
		Civil Engineering courses:					
1W	4	CIVE284Structural Engineering Basics	Basic principles of statics; force systems; trusses; centroids and second moment of areas; stress and strain; beams; shearing and bending stresses; deflections; combined stresses; columns.				

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2F	3	CIVE385 Structural Steel & Timber Design	Structural loadings, load factors, code requirements and design procedures. Characteristics of structural steel and structural timber in building construction. Structural design of axially loaded tension and compression members, joists, beams, girders, trusses and framing systems.				
2W	3	CIVE388 Foundations & Concrete Design	Physical properties of concrete; behaviour and design of reinforced concrete members in compression, tension, bending, shear and combined loadings; bond and anchorage; soil properties, soil testing, footings; pile foundation; shorting; retaining walls.				
3F	2	ARCH 445 Structural Systems	Holistic overview of structural systems for architects and application to real-world architectural projects. Fundamentals and principles of the philosophy of structures; structural theory; mechanics of structures; loadings; different structural components such as gravity and lateral force resisting systems; materials and other factors in the design and analysis of structures.				

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		Faculty courses:					
1F	3	FACC220 Law for Architects & Engineers	Aspects of the law which affect architects and engineers. Definition and branches of law; Federal and Provincial jurisdiction, civil and criminal law and civil and common law; relevance of statutes; partnerships and companies; agreements; types of property, rights of ownership; successions and wills; expropriation; responsibility for negligence; servitudes/easements, privileges/liens, hypothecs/ mortgages; statutes of limitations; strict liability of architect, engineer and builder; patents, trade marks, industrial design and copyright; bankruptcy; labour law; general and expert evidence; court procedure and arbitration.				

MLC/Fall 2018